

**KOSO** 

-  No. 406 DING-AN ST. ANNAN DISTRICT TAINAN CITY 70944 TAIWAN
-  +886-6-2556565
-  +886-6-2461878
-  [www.koso.com.tw](http://www.koso.com.tw)
-  [info@koso.com.tw](mailto:info@koso.com.tw)

**KOSO NORTH AMERICA** 

-  673 Rossiter st. St-Jean-sur-Richelieu, Qc, Canada, J3B 8A4
-  +1-450-359-0604
-  +1-450-359-0849
-  [www.kosonorthamerica.com](http://www.kosonorthamerica.com)
-  [info@kosonorthamerica.com](mailto:info@kosonorthamerica.com)

**KOSO EUROPE** 

-  Dr.-Walter-Bruch-Strasse 9 66606 St.Wendel
-  +49 6851 978720
-  +49 6851 978799
-  [www.kosoeurope.com](http://www.kosoeurope.com)
-  [info@kosoeurope.com](mailto:info@kosoeurope.com)

**KOSO** 

**2020**

[www.koso.com.tw](http://www.koso.com.tw)

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**2020**

**KOSO** always keeps carrying  
through high quality &  
excellent technics to  
research new products.

**SINCE 1981**



## Tong Yah Electronic Technology Co., Ltd

Establishment 1981  
 Staff 120  
 Business activities Motorcycle & Automobile meters  
 Motorcycle & Automobile electronic parts  
 Scooter & motorcycle tune-up parts  
 Scooter & motorcycle accessory parts

### Quality certification



### Index

**Key to symbols**

- Plug & play-Harley-Davidson
- Plug & play
- Unlimit
- Race
- Classical
- Accessory
- Heater Grip & Light

### Key to symbols

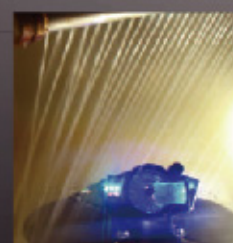
|                     |                   |                       |
|---------------------|-------------------|-----------------------|
| Speedometer         | Oil Thermometer   | Volt                  |
| Odometer            | EGT               | Target speed Timer    |
| Trip meter          | °C / °F           | Target distance Timer |
| Speed Warning light | Temperature Alarm | Lap timer             |
| Tachometer          | Air / fuel ratio  | JIS D 0203            |
| Shift light         | Gear meter        | Back light            |
| Hour meter          | Fuel              |                       |
| Water Thermometer   | Clock             |                       |



Fluid-technik



Circuit-board plotter



Water spray tester



Programmable salt spray tester



Programmable temperature tester



Board plotter tester

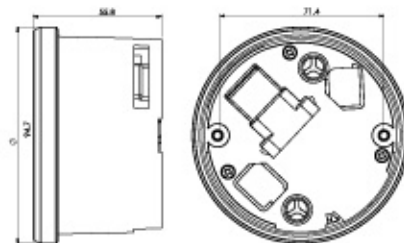


Tensility tester



3D Printer

# Harley-Davidson HD-02



|                               |   |
|-------------------------------|---|
| ● Digital tachometer          | Display range: 0 ~ 9990 rpm                               |
| ○ Tachometer                  | Display range: 0 ~ 8000 rpm<br>Display unit: 166 rpm      |
| ● Engine temperature          | Display range: -17 ~ 123°C (0 ~ 255 °F)                   |
| ● Gear meter                  | Display range: N, 1 ~ 6                                   |
| ● Supply voltage              | DC 12 V   |
| ● Effective temperature range | -10 ~ +60°C   |
| ● Meter standard              | JIS D 0203  |
| ● Meter size (D X H)          | D94.7 X 55.8 mm   |
| ● Meter weight                |   |
| ● Indicator light color       | Cruise Control Light (Orange/Green)<br>ABS Light (Yellow) |

| Item number | Backlight color | Display range | Coating |
|-------------|-----------------|---------------|---------|
|-------------|-----------------|---------------|---------|



|                         |                        |
|-------------------------|------------------------|
| Blue/Red 0-8,000 Chrome | Blue/Red 0-8,000 Black |
|-------------------------|------------------------|

## HD-02R 4" Tachometer

Our plug & play 0 to 8 000 RPM meter is equipped with a 2 colors changeable LCD display. Other than providing the engine RPM, this meter will provide the gear position, cruise control and ABS indicator light. Easy to connect and install, this meter is a great addition to all Harley's FLHT, FLHX and FLTR from 2004 to 2013.



Plug & play 2020

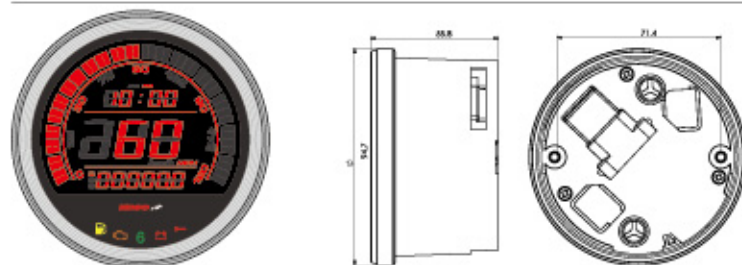
## Plug & play

### HD-02S 4" SPEEDOMETER

Our plug & play multi-functions speedometer is equipped with a 2 colors changeable LCD display. The instrument cover the basic functions of speed, odometer and tripmeter. It also includes a clock and all the necessary indicator lights. Easy to connect and install, this meter is a great addition to all Harley's FLHT, FLHX and FLTR from 2004 to 2013.



004 / 005



|                              |  |
|------------------------------|--|
| ●Digital Speedometer         | Display range:0 ~ 299 km/h (0 ~ 199 mph)<br>Display unit:1 km/h (mph)  |
| ○Speedometer                 | Display range:0 ~ 200 km/h (0 ~ 120 mph)<br>Display unit:About 4.2 km/h (2.5 mph)                                |
| ○Odometer                    | Display range:000,000~999,999 km (mile)<br>Display unit:1 km (mile)  |
| ○Trip meter A/B              | Display range:0000.0 ~ 9999.9 km (mile)<br>Display unit:0.1 km (mile)  |
| ●Clock                       | Display range:12 H / 24 H<br>Accuracy +/-4 seconds / Day   |
| ●Fuel                        | Display range : Fu-04 / Fu-08<br>Hd-04 / Hd-08   |
| ●Backlight color             | Setting range:Blue / Red   |
| ●Effective voltage           | DC 12 V  |
| ●Effective temperature range | -10~+60 °C   |
| ●Meter standard              | JIS D 0203   |
| ●Meter size (D X H)          | D94.7 X 55.8 mm  |
| ●Meter weight                |  |
| ●Indicator light color       | Fuel light (Yellow)<br>Engine Light (Yellow)<br>Gear Light (Green)<br>Volt Light (Red)<br>Anti-Theft Light (Red) |

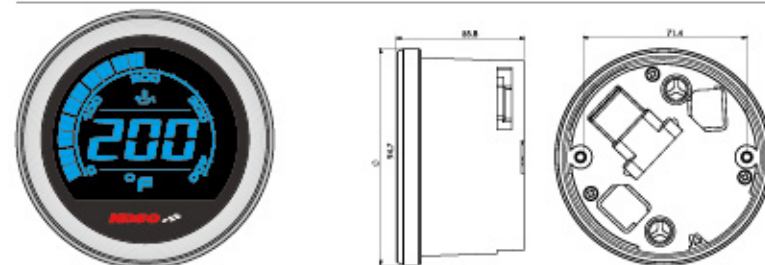
Item number  
Backlight color Display range Coating



\*BA051000\*  
Blue/Red 0~360 km/h Chrome



\*BA051010\*  
Blue/Red 0~360 km/h Black



|                              |   |
|------------------------------|---|
| ●Oil temperature             | Display range : 0 ~ 400 °F<br>Display unit : 1 °F or 1 °C             |
| ●Oil temp. warning           | Setting range : 150~400 °F (70~199 °C)<br>Setting unit : 1 °F or 1 °C |
| ●Supply voltage              | DC 12V  |
| ●Backlight setting           | Setting range : Blue / Red  |
| ●Effective temperature range | -10~+60°C   |
| ●Meter standard              | JIS D 0203  |
| ●Meter size (D X H)          | D57.5 X 47.3 mm   |
| ●Meter weight                | 86 g  |

Item number  
Backlight color Display range Coating



\*BA050500\*  
Blue/Red 0~400°F Chrome



\*BA050510\*  
Blue/Red 0~400°F Black

### HD-02P 2" Oil Temperature

This plug & play oil temperature meter is equipped with a 2 color changeable LCD display. It will provide you with the oil temperature from 0 to 400 °F and is easy to connect and install. This meter is a great addition to all Harley's FLHT, FLHX and FLTR from 2004 to 2013. This meter could allow ride to replace the Ambient meter if the ambient temp. is less important by personal preference.

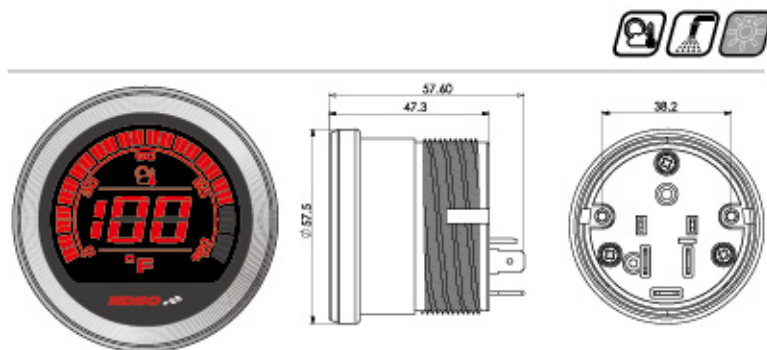


Plug & play 2020

## Plug & play

### HD-02T 2" Ambient Temperature

Equipped with a 2 colors changeable LCD display, this plug & play ambient temperature meter will provide you the outside temperature from 0 to 120°F. Easy to connect and install, this meter is a great addition to all Harley's FLHT, FLHX and FLTR from 2004 to 2013.



|                               |                         |
|-------------------------------|-------------------------|
| ● Ambient Temperature         | Display range: 0~120 °F |
|                               | Display unit: 1 °F      |
| ● Temperature alarm           | Setting range: 15~65 °F |
|                               | Setting unit: 1 °F      |
| ● Supply voltage              | DC 12V                  |
| ● Effective temperature range | -10~+60°C               |
| ● Meter standard              |                         |
| ● Meter size (D X H)          | D57.5 X 47.3 mm         |
| ● Meter weight                |                         |



006 / 007

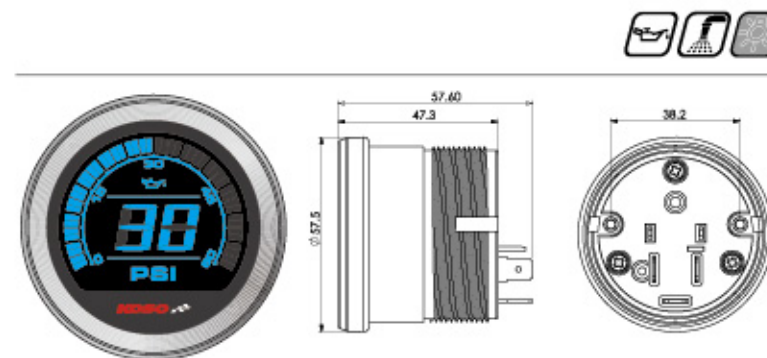
Item number Backlight color Display range Casing



Blue/Red 0~120°F Chrome Blue/Red 0~120°F Black

### HD-02P 2" Oil Pressure meter

Equipped with a 2 colors changeable LCD display, this plug & play oil pressure meter will provide the engine oil pressure from 0 to 60 PSI. Easy to connect and install, this meter is a great addition to all Harley's FLHT, FLHX and FLTR from 2004 to 2013.



|                               |                         |
|-------------------------------|-------------------------|
| ● Oil press                   | Display range: 0~60 PSI |
|                               | Display unit: 1 PSI     |
| ● Oil press alarm             | Setting range: 5~60 PSI |
|                               | Setting unit: 0.1 PSI   |
| ● Supply voltage              | DC 12V                  |
| ● Effective temperature range | -10~+60°C               |
| ● Meter standard              |                         |
| ● Meter size (D X H)          | D57.5 X 47.3 mm         |
| ● Meter weight                |                         |

Item number Backlight color Display range Casing



Blue/Red 0~120°F Chrome Blue/Red 0~120°F Black

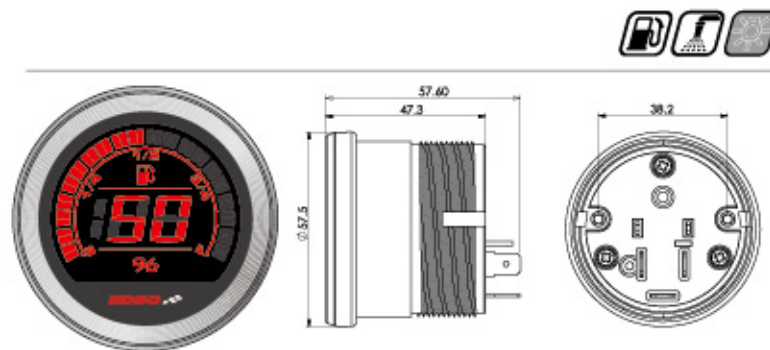


Plug & play 2020

## Plug & play

### HD-02F 2" Fuel meter

Equipped with a 2 colors changeable LCD display, this plug & play fuel meter will precisely display the percentage of fuel left in the tank. Easy to connect and install, this meter is a great addition to all Harley's FLHT, FLHX and FLTR from 2004 to 2013.



- Fuel meter                                      Display range: 0~100%
- Display unit: 1%
- Insufficient fuel warning                  Setting range: 0~30%
- Setting unit: 1%
- Supply voltage                                DC 12V
- Effective temperature range              -10~+60°C
- Effective temperature range              JIS D 0203
- Meter standard
- Meter size (D X H)                          D57.5 X 47.3 mm
- Meter weight



Item number  
Backlight color    Display range    Casing

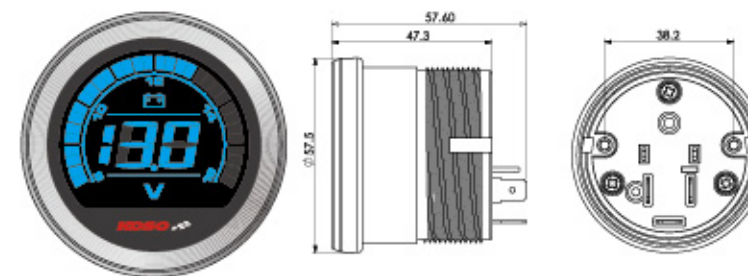


Blue/Red 0-100% Chrome    Blue/Red 0-100% Black



### HD-02V 2" Volt meter

Equipped with a 2 colors changeable LCD display, this plug & play volt meter will provide you the battery voltage from 8 to 16 volts DC. Easy to connect and install, this meter is a great addition to all Harley's FLHT, FLHX and FLTR from 2004 to 2013.



- Volt meter                                      Display range: 8.0~16.0V
- Display unit: 0.1V
- Volt warning                                    Setting range: 8.0~16.0V
- Setting unit: 0.1V
- Supply voltage                                DC 12V
- Effective temperature range              -10~+60°C
- Meter standard                                JIS D 0203
- Meter size (D X H)                          D57.5 X 47.3 mm
- Meter weight

Item number  
Backlight color    Display range    Casing



Blue/Red 8.0-16.0V Chrome    Blue/Red 8.0-16.0V Black



Plug & play

# Harley-Davidson HD-03



- Speedometer Display range : 0 ~ 299 km/h (0~199 MPH) switchable
- Overspeed warning Setting range : 30 ~ 299 km/h (19 ~ 199 MPH) when above(including) setting value, warning light will lit.
- Max. speed record Display range : 0 ~ 299 km (mile)
- Internal and external odometer Display range : 0 ~ 999,999 km (mile)
- Tire circumference Setting range : 50 ~ 210 %
- Trip meter A - B Display range : 0 ~ 9,999.9 km (mile)
- Millage maintenance Setting range : off - 500 ~ 16,000 km ~ -999 km (mile)
- Gear meter Display range : off - N - P - R - 1-6
- Tachometer Display range : 0 ~ 9,990 RPM
- RPM shift light Display range : 2,000 ~ 8,000 RPM
- Max. rotating speed Display range: 0 ~ 8,000 RPM
- Engine temperature Setting range : -40 ~ 300 °C (-40 ~ 572 °F)
- Fuel meter Setting range : HD Std - Cust
- Fuel warning setting Setting range : 1. HD Standard - LCD flashing as warning when Fuel level resistance greater than 211Ω, and will turn off when resistance smaller than 187Ω.  
2. Customize - LCD flashing as warning when Fuel level lower than 20%, and will turn off when fuel level higher than 30%.
- Fuel tank volume Setting range : OFF/ 1.0 ~ 9.9 US gallons
- Average fuel consumption Setting range : OFF - L/100km - km/L - MPG - MPG
- RANGE / Remaining Mileage Display range : 0 ~ 9,999 km (6,249 mile)
- RANGE / Remaining Mileage Warning Display range : LCD shows "LO RING" and flashing as warning when RNAGE / Remaining Mileage lower than 16km (10miles).
- Clock Setting range : 12 / 24 hour format
- Oil Temp. Display range : 0 ~ 400 °F ( 32 ~ 248 °C )
- Voltmeter Display range : 8 ~ 18 V
- Backlight brightness Setting range : 1 - 5 (darkest) - 5 / 5 (brightest)
- Backlight color Setting range : red - blue
- Operating voltage DC 12 V
- Temperature range JIS D 0203 (S2)
- Indication light Turn signal (Green) ← Water temperature (Blue) ↑
- Photometric Sensing ● Warning Light (Orange/Green) ↓
- Oil (Red) ↑ High beam (Blue) ↓
- Engine warning (Yellow) ↑ Fog Light (Green) ↓
- Constant speed (Orange / Green) ↑ ABS (Yellow) ↓
- Security (Red) ↑ Turn signal (Green) ↓



Blue 0-299 km/h Black

## KOSO Harley Touring 4pcs Kit For 2014+

Our plug & play multifunction speedometer & tachometer kit is equipped with a 2 color changeable LCD display. These meters provide the basic function of speed, RPM, gear position, odometer and tripmeter. They also include a clock and all the necessary indicator lights and are easy to connect and install. These meters are a great addition to all Harley-Davidson® FLHX, FLTC and FLTR from 2014 to 2017.



Plug & play 2020

Plug & play

# Harley-Davidson HD-04



NEW !



|                                  |  |
|----------------------------------|--|
| ● Speedometer                    | Display range : 0 ~ 360 km/h (0 ~ 255 MPH)<br>switchable<br>Display unit: 1 km/h (MPH)   |
| ○ Display interval               | < 0.5 second   |
| ○ Internal and external odometer | Display range : 0 ~ 999,999 km (mile)<br>return to zero upon exceed<br>Display unit : 1 km (mile)  |
| ○ Trip meter A, B                | Display range : 0 ~ 9,999.9 km (mile)<br>returns to zero upon exceed<br>Display unit : 0.1 km (mile)   |
| ○ Tire circumference             | Setting range : 50 ~ 210 %<br>Setting unit : 1 %   |
| ● Gear meter                     | Display range : off, highest gear, N and highest gear, show all (N / 1 ~ 6)  |
| ● Tachometer                     | Display Range : 0 ~ 8,000 RPM  |
| ○ RPM shift light                | Setting range : 2,000 ~ 8,000 RPM<br>Warning lights on when exceed setting value (including).<br>Setting unit : 100 RPM  |
| ○ Max. RPM warning mode          | Setting range : F-OFF (Lit.), F-ON (blink)   |
| ● Engine temperature             | Setting range : -40 ~ 300 °C (-40 ~ 572 °F)  |
| ● Fuel meter                     | Display range : off, original fuel kit (PN 6120008A), Sportster fuel switch, Dyna  |
| ○ Fuel tank volume               | Setting range : OFF / 1.0 ~ 9.9 US gallons   |
| ○ Average fuel consumption       | Display range : OFF / L/100km - km/L / MPG (US spec.) / MPG (UK spec)  |
| ● Clock                          | Setting range : 12 / 24 hour format  |
| ● Voltmeter                      | Display range : 8 ~ 18 V   |
| ● Backlight brightness           | Setting range : 1 / 5 (darkest) ~ 5 / 5 (brightest)  |
| ○ Backlight color                | Setting range : red, orange, yellow, green, blue, light blue, purple, white  |
| ● Millage maintenance            | Setting range : Off, 500 ~ 16,000 km (300 ~ 10,000 mile)<br>Setting unit : 100 km (mile)   |
| ● Operating voltage              | DC 12 V  |
| ● Temperature range              | -10 ~ +60 °C   |
| ● Specifications                 | JIS D 0203 (S2)  |
| ● Meter size                     | D94.7 X 55.8 mm  |
| ● Meter weight                   | 165 grams  |
| ● Indication light               | RPM shift light (Red light) ●<br>Low fuel warning light (Yellow light) ⚡<br>Engine check light (Yellow light) ⚠<br>Battery discharge light (Red light) 🔋<br>Security light (Red light) 🔒<br>Cruise light (Orange / Green light) 🏍️<br>ABS light (Yellow light) 🚗 |

## HD-04 Harley Sportster Meter For 04'-13' / 2014+ Meter

You can now customize your sportster with our high-quality plug & play meter that is equipped with a 8 color changeable LCD display. Some of the great functions this meter has to offer are : speed, RPM, indicator lights, fuel level, and gear position indicator. Available in silver or black bezel.



| Item number | Model | Bezel |
|-------------|-------|-------|
|-------------|-------|-------|



|          |         |        |
|----------|---------|--------|
| BA051200 | 04'-13' | Silver |
| BA051201 | 04'-13' | Silver |
| BA051210 | 04'-13' | Black  |
| BA051211 | 04'-13' | Black  |

|          |       |        |
|----------|-------|--------|
| BA051220 | 2014+ | Silver |
| BA051221 | 2014+ | Silver |
| BA051230 | 2014+ | Black  |
| BA051231 | 2014+ | Black  |

Fits XL-883 & XL-1200  
2004 to 2013 & Dyna 2004-2011

Fits XL-883 & XL-1200  
2014+, Softail 2011+ & Dyna 2012+



Plug & play

# Harley-Davidson HD-05



NEW!



|                                  |   |
|----------------------------------|---|
| ● Speedometer                    | Display range : 0 ~ 360 km/h (0 ~ 225 MPH)<br>switchable<br>Display unit : 1 km/h (MPH)   |
| ○ Display interval               | <0.5 second   |
| ○ Internal and external odometer | Display range : 0 ~ 999,999 km (miles)<br>return to zero upon exceeding<br>Display unit : 1 km (mile)   |
| ○ Trip meter A, B                | Display range : 0 ~ 9,999.9 km (miles)<br>returns to zero upon exceeding<br>Display unit : 0.1 km (mile)  |
| ○ Tire circumference             | Setting range : 50 ~ 210 %<br>Setting unit : 1 %  |
| ● Gear meter                     | Display range : off, highest gear, N and highest gear, show all (N / 1 ~ 6)   |
| ● Tachometer                     | Display Range : 0 ~ 8,000 RPM   |
| ○ RPM shift light                | Setting range : 2,000 ~ 8,000 RPM<br>Warning lights on when exceed setting value (including).<br>Setting unit : 100 RPM   |
| ○ Max. RPM warning mode          | Setting range : F-OFF (Lit.), F-ON (blink)  |
| ● Engine temperature             | Setting range : -40 ~ 300 °C (-40 ~ 572 °F)   |
| ● Fuel meter                     | Display range : off, Dyna   |
| ○ Fuel tank volume               | Setting range : OFF / 1.0 ~ 9.9 US gallons  |
| ○ Average fuel consumption       | Display range : OFF / L/100 km · km/L · MPG (US spec.) · MPG (UK spec.)   |
| ● Clock                          | Setting range : 12 / 24 hour format   |
| ● Voltmeter                      | Display range : 8 ~ 18 V  |
| ● Backlight brightness           | Setting range : 1 / 5 (darkest) ~ 5 / 5 (brightest)   |
| ○ Backlight color                | Setting range : red, orange, yellow, green, blue, light blue, purple, white   |
| ● Mileage maintenance            | Setting range : Off, 500 ~ 16,000 km (300 ~ 10,000 mile)<br>Setting unit : 100 km (miles)   |
| ● Operating voltage              | DC 12 V   |
| ● Temperature range              | -10 ~ +60 °C  |
| ● Specifications                 | JIS D 0203 (S2)   |
| ● Meter size                     | D117 X 45 mm  |
| ● Meter weight                   | 208.5 grams   |
| ● Indication light               | RPM shift light (Red light) ●<br>Low fuel warning light (Amber light) ⛽<br>Engine check light (Amber light) ⚙️<br>Battery discharge light (Red light) 🔋<br>Security light (Red light) 🚫<br>Cruise light (Amber / Green light) 🏞️<br>ABS light (Amber light) 🛑 |

## HD-05 Harley Dyna Meter For 04'-13' / 2014+ Meter

The all-new 100% plug and play HD-05 series for 4 1/2" gas tank mounted Harley-Davidson models features a tach and speedo combo with a programmable shift light with gear indicator. This gauge also features vital readings such as engine temperature and battery voltage along with average fuel economy and a complete system of indicators to monitor your bikes vital signs.



| Item number | Models | Color |
|-------------|--------|-------|
|-------------|--------|-------|



|          |          |         |        |
|----------|----------|---------|--------|
| RA072000 | Positive | 04'-13' | Silver |
| BA072001 | Negative | 04'-13' | Silver |
| RA072010 | Positive | 04'-13' | Black  |
| BA072011 | Negative | 04'-13' | Black  |

2004 to 2011 Dyna models  
2004 to 2010 Softails models  
2004 to 2013 Road King models

|          |          |       |        |
|----------|----------|-------|--------|
| RA072100 | Positive | 2014+ | Silver |
| BA072101 | Negative | 2014+ | Silver |
| RA072110 | Positive | 2014+ | Black  |
| BA072111 | Negative | 2014+ | Black  |

2012 to newer Dyna models  
2011 to newer Softails models  
2014 to newer Road King models

Plug & play

# Harley-Davidson HD-06



NEW!



|  |   |
|--|---|
| <input checked="" type="radio"/> Speedometer         | Display range : 0 – 299 km/h (0–199 MPH)<br>switchable<br>Display unit : 1 km/h (MPH)   |
| <input type="radio"/> Display interval               | <0.5 second   |
| <input type="radio"/> Overspeed warning setting      | Setting range : 30 – 299 km/h (19 – 199 MPH)<br>when above(including) setting value, warning light will lit.<br>Setting unit : 1 km/h (MPH)   |
| <input type="radio"/> Max. speed record              | Display range : 0 – 299 km (0 – 199mile)  |
| <input type="radio"/> Internal and external odometer | Display range : 0 – 999,999 km(mile)<br>Display unit : 1 km(mile)   |
| <input type="radio"/> Tire circumference             | Setting range : 50 – 210 %<br>Setting unit : 1 %  |
| <input type="radio"/> Trip meter A - B               | Display range : 0 – 9,999.9 km (mile)<br>Display unit : 0.1 km (mile)   |
| <input type="radio"/> Mileage maintenance            | Setting range : off - 500 ~ 16,000 km<br>(300 ~ 10,000 mile)~ -999 km (mile), decrease according to the increase in total mileage.<br>Setting unit : 1 km (mile)  |
| <input checked="" type="radio"/> Gear meter          | Display range : off - N - P - R - 1 - 2 - 3 - 4 - 5 - 6   |
| <input checked="" type="radio"/> Tachometer          | Display range : 0 – 9,990 RPM<br>Display unit : 10 RPM  |
| <input type="radio"/> RPM shift light                | Display range : 2,000 ~ 8,000 RPM<br>Warning lights on when exceed setting value (including).<br>Setting unit : 100 RPM   |
| <input type="radio"/> Max. rotating speed            | Display range : 0 ~ 8,000 RPM<br>Display unit : 100 RPM   |
| <input checked="" type="radio"/> Engine temperature  | Setting range : -40 – 300 °C (-40 ~ 572 °F)   |
| <input checked="" type="radio"/> Fuel meter          | Setting range : HD Std / Cust   |
| <input type="radio"/> Fuel warning setting           | Setting range :<br>1. HD Standard - LCD flashing as warning when Fuel level resistance greater than 211Ω, and will turn off when resistance smaller than 187Ω.<br>2. Customize - LCD flashing as warning when Fuel level lower than 20%, and will turn off when fuel level higher than 30%. |

Item number  
Backlight color Display range Casing



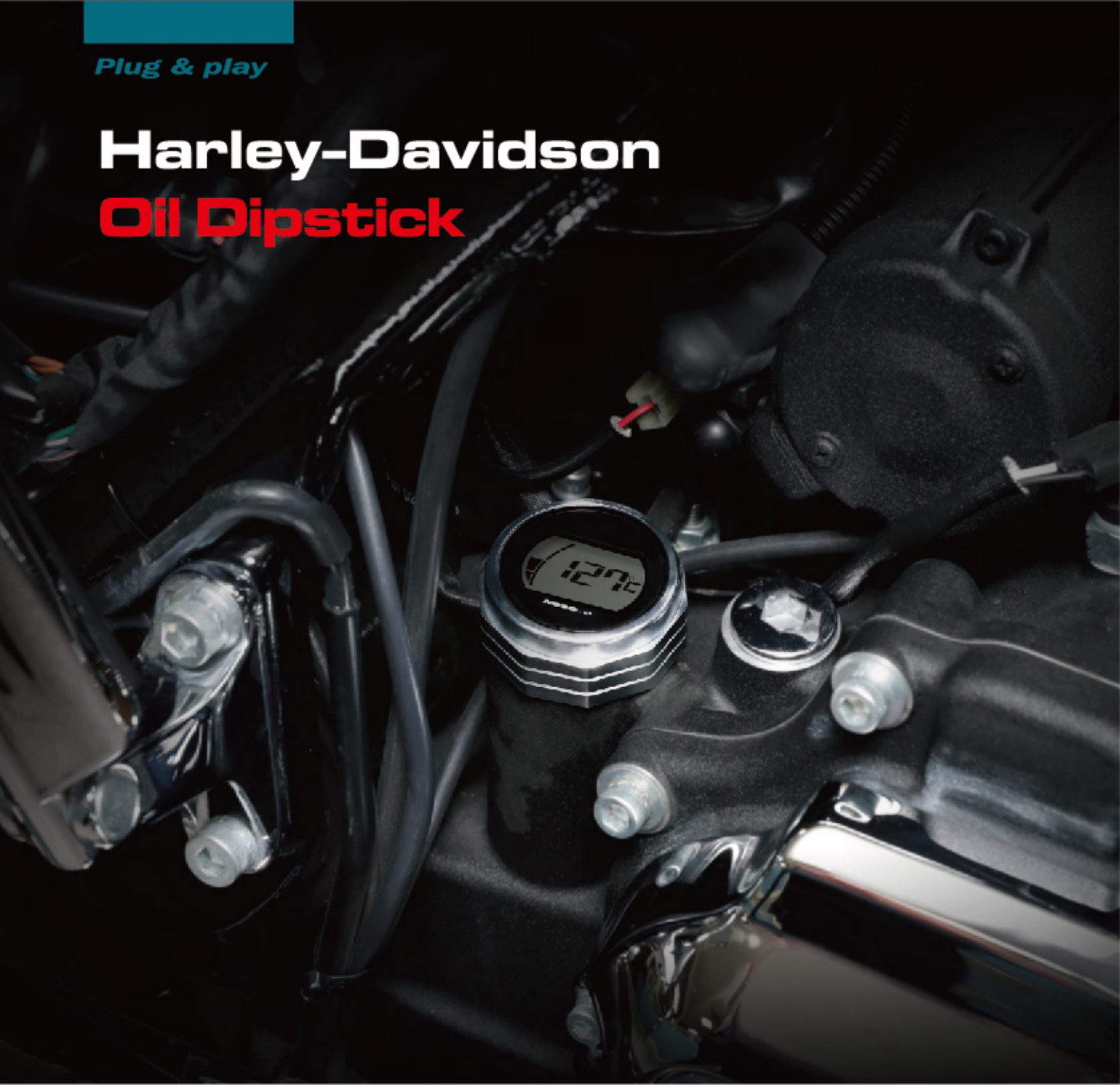
## HD-06 Harley Touring LED Instrument Kit for 2014+

Our plug & play multifunction speedometer & tachometer kit is equipped with adjustable brightness LED display. These meters provide the basic function of speed, RPM, gear position, odometer and trip meter. They also include a clock and all the necessary indicator lights and are easy to connect and install. These meters are a great addition to all Harley-Davidson® FLHX, FLTC and FLTR from 2014 to 2017.

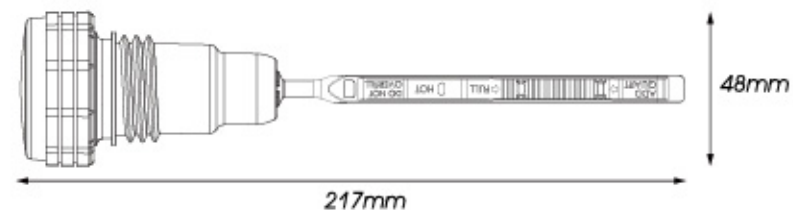
|   |   |                              |                              |
|---|---|------------------------------|------------------------------|
| <input type="radio"/> Fuel tank volume                          | Setting range : OFF / 1.0 – 9.9 US gallons  |                              |                              |
| <input type="radio"/> Average fuel consumption                  | Setting range : OFF - L/100km - km/L - MPG (US spec.) - MPG(UK spec.)   |                              |                              |
| <input checked="" type="radio"/> RANGE / Remaining Mileage      | Display range : 0 – 9,999 km (6,249 miles)<br>Display unit : 1 km (mile)  |                              |                              |
| <input type="radio"/> RANGE / Remaining Mileage Warning         | Display range : LCD shows "LO RING" and flashing as warning when RANGE / Remaining Mileage lower than 16 km (10 miles). |                              |                              |
| <input checked="" type="radio"/> Clock                          | Setting range : 12 / 24 hour format   |                              |                              |
| <input checked="" type="radio"/> Oil Temp.                      | Display range : 0 ~ 400 °F ( 32 ~ 248 °C)<br>Display unit : 1 °C (°F)   |                              |                              |
| <input type="radio"/> Max. Oil Temp. record                     | Display range : 0 – 400 °F ( 32 ~ 248 °C)   |                              |                              |
| <input checked="" type="radio"/> Air Pressure Gauge             | Display range : Display — when no sensor is installed, 0 – 150 PSI<br>Display unit : 1 PSI                              |                              |                              |
| <input checked="" type="radio"/> Air Pressure Gauge Calibration | Calibration range : 0 – 25 PSI±1PSI<br>Calibration unit : 1 PSI<br>Default value : 0 PSI                                |                              |                              |
| <input checked="" type="radio"/> Backlight brightness           | Setting range : 1 / 5 (darkest) – 5 / 5 (brightest)   |                              |                              |
| <input checked="" type="radio"/> Operating voltage              | DC 12 V   |                              |                              |
| <input checked="" type="radio"/> Temperature range              | -10 ~ +60 °C  |                              |                              |
| <input checked="" type="radio"/> Specifications                 | JIS D 0203 (S2)   |                              |                              |
| <input checked="" type="radio"/> Meter Weight - Speedo & Tacho  | 286 grams   |                              |                              |
| <input checked="" type="radio"/> Meter Weight - Oil Temp.       | 81 grams  |                              |                              |
| <input checked="" type="radio"/> Meter Weight - Fuel Level      | 81 grams  |                              |                              |
| <input checked="" type="radio"/> Indicators                     |   |                              |                              |
| Turn signal (Green)   | Turn signal (Green)   | Water temperature (Blue)     | Water temperature (Blue)     |
| Photometric Sensing   | Warning Light (Orange/Green)  | Warning Light (Orange/Green) | Warning Light (Orange/Green) |
| Oil (Red)   | High beam (Blue)  | High beam (Blue)             | High beam (Blue)             |
| Engine warning (Yellow)   | Fog Light (Green)   | Fog Light (Green)            | Fog Light (Green)            |
| Constant speed (Orange / Green)                                 | ABS (Yellow)  | ABS (Yellow)                 | ABS (Yellow)                 |
| Security (Red)  | Turn signal (Green)   | Turn signal (Green)          | Turn signal (Green)          |

Plug & play

# Harley-Davidson Oil Dipstick



NEW!



- Thermometer Display range : 0~150°C (32~302°F)  
Display Unit: 1°C(°F)
- Fuel meter Display range: 1~4 level
- Low battery warning When low battery warning appears, battery replacement is needed to keep the dipstick accurate. CR2032
- Battery specification
- Meter working temperature -10~60°C
- Meter standard JIS D 0203(S2)
- Meter size 217x48 mm
- Meter weight About 273 g

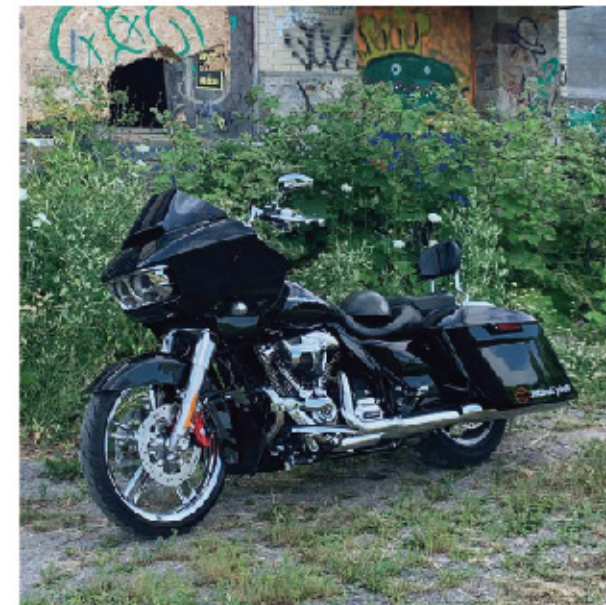


| Dipstick | Item number | Coloring |
|----------|-------------|----------|
| Positive | 07-16*      | Black    |
| Negative | 07-16*      | Black    |
| Positive | 07-16*      | Silver   |
| Negative | 07-16*      | Silver   |

| Dipstick | Item number | Coloring |
|----------|-------------|----------|
| Positive | 2017*       | Black    |
| Negative | 2017*       | Black    |
| Positive | 2017*       | Silver   |
| Negative | 2017*       | Silver   |

## Harley-Davidson Oil Dipstick

The Harley Davidson Oil dipstick by Koso is a fast and simple solution to verifying oil level as well as temperature. The push to power technology provides the ability to check your bike's oil vital signs on the go or at a red light with ease.



Plug & play 2020

Harley-Davidson Oil Dip Stick

## Plug & play

### KOSO YAMAHA BOLT METER

Plug & Play meter for YAMAHA BOLT 950, fully equipped with all function you need. Such as tachometer, speedometer, odometer, trip meter, shift light, fuel level, indicator lights and so on. Special design with 7 color changeable display to allow you customize your favor backlight color during your riding to maximize the fun!

This meter suitable for YAMAHA BOLT both R-spec and C-spec up to year 2016 models.



NEW!



| Indicator            |   |
|----------------------|---|
| ● Round              | ● |
| ● High beam          | ● |
| ● Engine Check       | ● |
| ● Turn signal        | ● |
| ● Immobilizer system | ● |
| ● Oil                | ● |
| ● ABS                | ● |

#### Speedometer

- Speedometer : 0~360 km (0~225 mile)
- Display unit : 1 km (mile)

#### Motor oil maintenance millage

- Display range : User settings (500 ~ 16000km / 300 ~ 10000 mile) ~ -999 km (mile) : decrease according to the increase in total millage.
- Display unit : 1 km(mile)

#### Clock

- Display range : 12 / 24hour forment

#### Engine temp.

- Display range : -30 ~ 225 °C (-22 ~ 437 °F)

#### Max. RPM

- Display range : 0 ~ 8,000 RPM

#### Max. temperature record

- Display range : -30 ~ 225 °C (-22 ~ 437 °F)

#### Max gear level record

- Display range : - (No display), N, 1 ~ 5 gear level

#### Record gear level when at maximum rpm.

#### Odometer

- Display range : 000000 ~ 999999 km (mile)

#### returns to zero upon exceed

- Setting unit : 1 km (mile)

#### Trip meter A - B

- Display range : 0000.0 ~ 9999.9 km (mile)

#### returns to zero upon exceed

- Setting unit : 0.1 km (mile)

#### fuel reserve tripmeter(TRIP-F)

- Display range : 0000.0 ~ 9999.9 km (mile)

#### returns to zero upon exceed

- Display unit : 0.1 km (mile)

| Item number | Display | Display range | Casing |
|-------------|---------|---------------|--------|
|-------------|---------|---------------|--------|



★BA051300★  
Negative 0~360 km/h Chrome



★BA051301★  
Positive 0~360 km/h Chrome



★BA051310★  
Negative 0~360 km/h Black



★BA051311★  
Positive 0~360 km/h Black

|                               |  |
|-------------------------------|--|
| ● Speedometer                 | Display range : 0 ~ 360 km (0 ~ 225 mile)<br>Display unit : 1 km(mile)   |
| ● Overspeed warning setting   | Setting range : 30 ~ 360 km (19 ~ 225 mile) when above (including) setting value, warning light will lit.  |
| ● Max. speed record           | Display range : 0 ~ 360 km (0 ~ 225 mile)<br>Display range : 0 ~ 999,999 km(mile)  |
| ● Speedometer                 | Display range : 0 ~ 360 km (0 ~ 225 mile)<br>Display unit : 1 km(mile)   |
| ○ Trip meter A - B            | Display range : 0 ~ 9,999.9 km(mile)   |
| ○ Motor oil maintenance       | Setting range : close · 500 ~ 16,000 km (300 ~ 10,000 mile)  |
| ○ fuel reserve tripmeter      | Display range : 0 ~ 9999.9km(mile)   |
| ● Tire percentage             | Setting range : 50 ~ 200 %   |
| ● Gear meter                  | Display range : - (No display), N, 1 ~ 5 gear level  |
| ○ Display interval            | Display range : < 0.5 sec  |
| ○ Max. gear level record      | Display range : - (No display), N, 1 ~ 5 gear level<br>Record gear level when at maximum rpm   |
| ● RPM                         | Display range : 0 ~ 8,000 RPM  |
| ○ Shift light warning setting | Setting range : 1,000 ~ 8,000 RPM when above (including) setting value, warning light will lit.  |
| ○ Digital tachometer          | Display range : 0 ~ 8,000 RPM  |
| ● ABS indicator setting       | Setting range : Close(OFF) · Open(ON)  |
| ● Thermometer                 | Display unit : °C, °F, switchable  |
| ○ Water temperature meter     | Display range : -30 ~ 225 °C (-22 ~ 437 °F)  |
| ○ Overheat warning setting    | Setting range : 60 ~ 225 °C (140 ~ 437 °F) when above(including) setting value, warning light will lit.  |
| ○ Max. temperature record     | Display range : -30 ~ 225 °C (-22 ~ 437 °F)  |
| ● Round indicator             | speeding warning ligh, RPM shift light, over heat warning light, Low volt warning, Fuel warning, oil maintenance, Highest gear   |
| ○ Warning cause               | Lit. (L), Slow flash (S), Flash (F)  |
| ○ Warning method              | Lit. (L), Slow flash (S), Flash (F)  |
| ● Fuel meter                  | Display range : (ON) · (OFF) · Flash   |
| ● Clock                       | Setting range : 12 / 24 hour forment   |
| ● Under voltage warning       | Setting range : 8.0 ~ 18.0 V   |
| ● Back light brightness       | Setting range : 1 - 5 (darkest) ~ 5 - 5 (brightest)  |
| ○ Back light color            | Setting range : red, orange, yellow, green, blue, light blue, purple, white, loop switch   |
| ● Operating voltage           | DC 12 V  |
| ○ Operating temperature       | -10 + 60 °C  |
| ○ Specification               | JIS D 0203 S2  |
| ○ Meter Size                  | 94.7 x 94.7 x 69.2 mm  |
| ○ Meter Weight                | Around 217 g   |
| ○ Indicator                   | Round (red light), High beam (blue light), Engine Check (yellow light), Turn signal (green light), Immobilizer system indicator light (red light), Oil (red light), ABS (yellow light) |



RX1N+

E-mark approval

Just the right size & shape designed for ATV & Motorcycle. With the up to 15,000 RPM tachometer & the illuminated needle, you could read the information easily even in the night.

With the MAX power test, you could check the top speed your machine could reach and the time & distance you need to reach it.

The target distance test provides you the chance to see how fast you are and how much time you need to reach at a limited distance.

The target speed test provides you the information of how much distance you need to reach the speed you set and how long it takes.

It is just like you have a DYNO on your machine for you to adjust your machine. Are you ready to join the race?



**The RPM Red, Yellow shift light**  
 ●Setting range: 1,000~15,000 RPM.  
 ●Setting unit: 100 RPM.  
 ●Warning: on (F-OFF), Flash (F-ON)

**Temperature warning (water & oil temperature)**  
 ●Setting range: 60~120°C (140~248°F).  
 ●Setting unit: 1°C (°F).



Target Speed test



Target distance test



MAX record



Item number  
 Backlight color Display range Panel color

White 0~15,000 RPM Black  
 Blue 0~15,000 RPM Black  
 Blue 0~15,000 RPM White

Option accessory

|   |   |  |  |
|---|---|--|--|
| <p><b>1</b> Dio magnet screw</p> <p>SP14-15 X 22.5<br/>         MS 415.8 X 22.5<br/>         MS 371.0 X 20.0<br/>         MS 374.0 X 20.0<br/>         MS 417.0 X 20.0<br/>         MS 417.0 X 22.5<br/>         MS 417.0 X 27.0<br/>         MS 417.0 X 28.0</p> | <p><b>2</b> Active speed sensor</p>   | <p><b>3</b> Digital speed signal sensor</p> <p>JIS TYPE D</p>  | <p><b>4</b> Digital speed signal sensor</p> <p>JIS TYPE A</p>                    |
| <p><b>5</b> Digital speed signal sensor</p> <p>WUMER</p>  | <p><b>6</b> Digital speed signal sensor</p> <p>WUMER</p>  | <p><b>7</b> L type speed sensor bracket</p>  | <p><b>8</b> Temp sensor wire set (2 M)</p>                                       |
| <p><b>9</b> Oil temp sensor adaptor</p> <p>MS 417.0 X 22.5<br/>         MS 417.0 X 27.0<br/>         MS 417.0 X 28.0<br/>         MS 417.0 X 20.0<br/>         MS 417.0 X 22.5</p>  | <p><b>10</b> Water temp sensor adaptor</p> <p>MS 417.0 X 22.5<br/>         MS 417.0 X 27.0<br/>         MS 417.0 X 28.0</p> | <p><b>11</b> Temp sensor</p> <p>MS 417.0<br/>         MS 417.0<br/>         MS 417.0<br/>         MS 417.0</p> | <p><b>12</b> Cylinder head temp sensor</p> <p>MS 417.0<br/>         MS 417.0</p> |

- Speedometer Display range: 0~360 km/h (0~225 MPH)  
Display unit: km/h & MPH for alternative
- Odometer Display range: 0~99999.9 km (mile), reset reset automatically after 99999.9 km (mile)  
Display unit: 1 km (mile)
- Trip meter A/B Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Speeding warning light Setting range: 30~360 km/h (19~225 MPH)  
Setting unit: 1 km/h (MPH)
- Top speed record Display range: 0~360 km/h (0~225 MPH)
- Tire circumference Setting range: 300~2,500 mm  
Setting unit: 1 mm •Sensor point: 20
- Tachometer Display range: 15,000 RPM  
Display unit: 100 RPM
- The RPM Red, Yellow shift light Setting range: 1,000~15,000 RPM  
Setting unit: 100 RPM
- Warning Light on (F-OFF)  
Flash (F-ON)
- MAX RPM record Display range: 0~15,000 RPM
- The RPM input signal number setting Setting range: 0.5, 1~24
- The RPM input pulse Setting range: HI (The positive wave pulse)  
Lo (The negative wave pulse)
- Thermometer Display unit: °C & °F for alternative
- Digital thermometer Display range: 0~120°C (32~248°F)  
(Water & oil temperature) Display unit: 0.1°C (°F)
- Level thermometer Display range: 20~110°C (68~230°F), 10 levels  
(Water & oil temperature) Display unit: Each level represents 10°C (50°F)
- Over heat warning Setting range: 60~120°C (140~248°F)  
(Water & oil temperature) Setting unit: 1°C (°F)
- Top temperature record Display range: 0~120°C (32~248°F)
- Fuel meter Display range: 10 levels  
Display unit: Each level represents 10 %  
Setting range: 100Ω, 250Ω, 510Ω, 1200Ω, SW  
Setting unit: 10 %
- Insufficient fuel warning Setting range: 10~50 %  
Setting unit: 10 %
- Clock 24H
- Digital Volt meter Display range: DC 8~18 V. Flashing warning when Voltage lower than 11.5 V or higher than 15.5 v
- Target speed timer Setting range: 30~360 km/h (20~220 MPH)  
Setting unit: 5 km/h (MPH)
- Target distance timer Setting range: 50~1,500 M (1/32~30/32 mile)  
Setting unit: 50 M (1/32 mile)
- Top speed timer The record including,  
1.Speed: 0~360 km/h (0~225 MPH)  
2.Distance: 0~999 M (0~3280 feet)  
3.RPM: 0~15,000 RPM  
4.Timer: 0~9:59.99 second.
- Effective voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 151.8 X 81.5 X 52.5 mm
- Meter weight Around 212 g
- Telltails  
 ↔ Repeater (Green) N Neutral (Green)  
 ↔ High beam (Blue) EOBD (Amber)  
 ↔ Oil (Red) ↔ Speeding (Red)  
 ● RPM shift light (Yellow / Red)



# Unlimit

GP style

E-mark approval

## RX2+

The RX-2 is probably one of our best seller. Its unique changeable backlight colors make's it a very popular instrument. The illuminated needle with LED pointer make's the RX-2 a very easy gauge to read even at night. This instrument features many different functions such as speed, odometer, tripmeter, RPM, shift light, temperature, indicator lights and many other cool functions. Set yourself apart with the RX-2!



### The RPM Red, Yellow shift light

- Setting range: 1,000~15,000 RPM
- Setting unit: 100 RPM
- Warning: on (F-OFF), Flash (F-ON)

### The top RPM recall indicator light

- The indicator light will move according to the current RPM.
- The top RPM indicator light will show you top top RPM you reach and light on for 3 seconds.



Target speed test



Target distance test



MAX record

Item number  
backlight color Display range Panel color



Blue 0~15,000 RPM Black

### Option accessory



Kawasaki NINJA 250R  
Model RX2



Plug & Play Kit  
Kawasaki NINJA 250R  
Model RX2



Plug & Play Kit  
Kawasaki NINJA 250R(FI)  
Model RX2

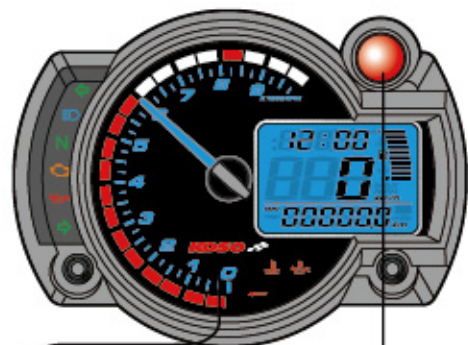
- Speedometer Display range: 0~360 km/h (0~225 MPH)  
Display unit: km/h & MPH for alternative
- Odometer Display range: 0~99999.9 km (mile), reset  
reset automatically after 99999.9 km (mile)  
Display unit: 1 km (mile)
- Trip meter A/B Display range: 0~999.9 km (mile),  
reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Speeding warning light Setting range: 30~360 km/h (19~225 MPH)  
Setting unit: 1 km/h (MPH)
- Top speed record Display range: 0~360 km/h (0~225 MPH)
- Tire circumference Setting range: 300~2,500 mm  
Setting unit: 1 mm • Sensor point: 20
- Tachometer Display range: 15,000 RPM  
Display unit: 100 RPM
- The RPM Red, Yellow shift light Setting range: 1,000~15,000 RPM  
Setting unit: 100 RPM
- Warning Light on (F-OFF)  
Flash (F-ON)
- MAX RPM record Display range: 0~15,000 RPM
- The RPM input signal number setting Setting range: 0.5, 1~24
- The RPM input pulse Setting range: HI (The positive wave pulse)  
Lo (The negative wave pulse)
- Thermometer Display unit: °C & °F for alternative
- Digital thermometer Display range: 0~120°C (32~248°F)  
(Water & oil temperature) Display unit: 0.1°C (°F)
- Level thermometer Display range: 20~110°C (68~230°F), 10 levels  
(Water & oil temperature) Display unit: Each level represents 10°C (50°F)
- Over heat warning Setting range: 60~120°C (140~248°F)  
(Water & oil temperature) Setting unit: 1°C (°F)
- Top temperature record Display range: 0~120°C (32~248°F)
- Fuel meter Display range: 10 levels  
Display unit: Each level represents 10 %  
Setting range: 100Ω, 250Ω, 510Ω, 1200Ω, SW
- Insufficient fuel warning Setting range: 10~50 %  
Setting unit: 10 %
- Clock 24H
- Digital Volt meter Display range: DC 8~18 V. Flashing warning  
when Voltage lower than 11.5 V or higher than 15.5 v
- Target speed timer Setting range: 30~360 km/h (20~220 MPH)  
Setting unit: 5 km/h (MPH)
- Target distance timer Setting range: 50~1,500 M (1/32~30/32 mile)  
Setting unit: 50 M (1/32 mile)
- Top speed timer The record including,  
1. Speed: 0~360 km/h (0~225 MPH)  
2. Distance: 0~999 M (0~3280 feet)  
3. RPM: 0~15,000 RPM  
4. Timer: 0~959<sup>99</sup> second.
- Effective voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 184.75 X 105 X 49 mm
- Meter weight Around 305 g
- Telltales  
N Neutral (Green)      H High beam (Blue)  
↔ Repeater (Green)      E EOBD (Amber)  
O Oil (Red)              S Speeding (Red)  
R RPM shift light (Yellow / Red)



RX2N+

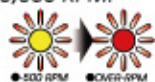
E-mark approval

The RX-2N has been developed with the best components and latest technology on the market. The illuminated needle with LED pointer make's the RX-2N a very easy gauge to read even at night. This instrument features many different functions such as speed, odometer, tripmeter, RPM, shift light, temperature, indicator lights and many other cool functions. The 10 000 rpm and 20 000 rpm version gives the opportunity to better choose the right RPM scale for your bike.



**Tachometer warning light**

- Setting range: 5,000–10,000 RPM. ( 5,000–20,000 RPM)
- Setting unit: 100 RPM.



**The top RPM recall indicator light**

- The indicator light will move according to the current RPM.
- The top RPM indicator light will show you top top RPM you reach and light on for 3 seconds.



Target speed test

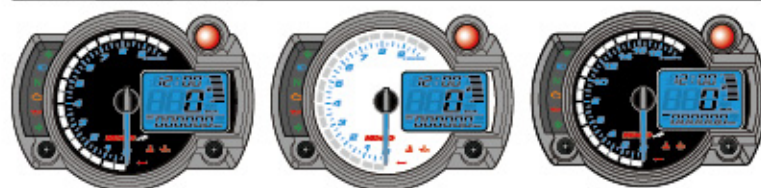


Target distance test



MAX record

Item number  
Backlight color Display range Panel color



Blue 0-10,000 RPM Black    Blue 0-10,000 RPM White    Blue 0-20,000 RPM Black



Blue 0-20,000 RPM White    8 color 0-20,000 RPM Black    8 color 0-10,000 RPM Black

- Speedometer Display range: 0~360 km/h (0~225 MPH)  
Display unit: km/h & MPH for alternative
- Display internal <0.5 second
- Odometer Display range: 0~99999.9 km (mile),  
reset automatically after 99999.9 km (mile)  
Display unit: 1 km (mile)
- Trip meter A/B Display range: 0~999.9 km (mile),  
reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Speeding warning light Setting range: 30~180 km/h (20~110 MPH)  
Setting unit: 5 km/h (MPH)
- Top speed record Display range: 0~360 km/h (0~223 MPH)
- Tire circumference Setting range: 300~2,500 mm  
Setting unit: 1 mm - Pulse setting: 1~60
- Tachometer Display range: 0~10,000 / 20,000 RPM  
Display unit: 250 / 500 RPM
- Display internal <0.5 second
- Shift light Setting range: 5,000~10,000 / 20,000 RPM  
Setting unit: 100 RPM
- MAX RPM record Display range: 0~10,000 / 20,000 RPM
- Stroke / piston setting 2 Stroke: 1, 2, 3, 4 pistons  
4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
- Thermometer Display unit: °C & °F for alternative
- Digital thermometer (Water & oil temperature) Display range: 0~250 °C (32~482 °F)  
Display unit: 0.1 °C (°F)
- Thermometer level (Water temperature) Display range: 20~120 °C (68~248 °F),  
10 segment bar graph  
Display unit: 10 °C (50 °F) for each segment
- Display internal <0.5 second
- Temperature alarm (Water & oil temperature) Setting range: 60~250 °C (140~482 °F)  
Setting unit: 1 °C (°F)
- Top temperature record Display range: 0~250 °C (32~482 °F)
- Fuel level Display range: 10 segment bar graph
- Fuel meter Display unit: 10 % for each segment  
Setting range: 100 Ω, 510 Ω, no display
- Insufficient fuel warning Setting range: 10~50 %  
Setting unit: 10 %
- Clock 24H
- Target speed timer Setting range: 30~360 km/h (20~220 MPH)  
Setting unit: 5 km/h (MPH)
- Target distance timer Setting range: 50~1,000 M (1/32~20/32 mile)  
Setting unit: 50 M (1/32 mile)
- Top speed timer The record including:  
1. Speed: 0~360 km/h (0~223 MPH)  
2. Distance: 0~999 M (0~3,280 feet)  
3. Timer: 0~9'59"99 second.
- Effective voltage DC 12V
- Effective temperature range -10~+60 °C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 135.7 X 100.7 X 52 mm
- Meter weight Around 240 g
- Telltales
  - High beam (Blue)    ↔ Repeater (Green)
  - Neutral (Green)    ↔ EOBD (Amber)
  - Oil (Red)    ↔ Speeding (Red)
  - RPM shift light (Yellow / Red)
  - Temperature alarm (Red)
  - Temperature alarm (Red)



RX3

RX3 instrument re-define of entry-level aftermarket instrument. Newest 3.5" colorful TFT LCD display with brand new design user friendly interface make your bike upgrade not just one level higher! All the functions you need for speedometer, tachometer, odometer and trip, this instrument also include the gear position display, target distance and target speed these performance features to make your bike's information and condition become more colorful in your eyes. RX3 instrument, makes each ride become a journey of fun!



**Fuel meter**  
 ●Display range : 6 levels  
 ●Display unit : Each level represents 16.6 %  
 Setting range : OFF、100 Ω、250 Ω、270 Ω、510 Ω、1200Ω、SW、Learning Mode

**Gear meter**  
 ●Display Type : Gear Learning、OFF  
 ●Display range : (Clutch Released)、N、1 ~Top Gear.The top gear is according to the gear learning.

**Speedometer**  
 ●Display range:0 ~ 360 km/h (0 ~ 223 MPH)  
 ●Display unit:km/h、MPH

Item number



5 8 0 7 1 0 0 0

- Speedometer Display range : 0~360 km/h (0~223MPH)  
Display unit : km/h、MPH
- Odometer Display range : 0~99,999 km (mile), reset when exceed  
Display unit : 1 km
- Adjustable Odometer Setting range : 0~99,999 km (mile) adjustable  
Setting unit : 1 km
- Trip meter A/B Display range : 0~9,999.9 km (mile), can be reset  
Setting unit : 0.1 km (mile)
- Maintenance Mileage Setting range : 300~5,000 km (mile),OFF  
Setting unit : 100 km (mile)
- Over-Speed Warning Setting range : 30~360 km/h (20~223 MPH)  
Setting unit : 1 km/h (MPH)
- MAX speed record Display range : 0~360 km/h (0~223MPH)  
Display unit : 1km/h (MPH)
- Tire circumference Setting range : 300~2,500 mm  
Setting unit : 1 mm
- Sensing Point Setting range : 1~20P  
Setting unit : 1P
- Gear meter Display Type : Gear Learning、OFF  
Display range : (Clutch Released)、N、1 ~Top Gear.The top gear is according to the gear learning.
- Top Gear Record (MAX) Display range : -(Clutch Released)、N、1 ~Top Gear. The top gear is according to the gear learning.
- Tachometer Display range : 0~15,000RPM  
Setting range : 1000~15,000 RPM  
Setting unit : 100RPM
- Shift Light Display range : 0~15,000RPM  
When in MAX Display, the needle shown the highest RPM.
- MAX RPM record Display range : 0~15,000RPM
- The RPM input signal number setting 0.5、1.0~24.0
- The RPM input pulse Setting range : Low-Act、High-Act
- Digital thermometer Display range : 0~250 °C(32~482°F)  
Display unit : 0.1 °C (°F)
- Over heat Warning Setting range : 60~250 °C (140~482°F)  
Setting unit : 1 (°F)
- MAX thermometer record Display range : 0~250 °C(32~482°F)
- Fuel meter Display range : 6 levels  
Display unit : Each level represents 16.6 %  
Setting range : OFF、100 Ω、250 Ω、270 Ω、510 Ω、1200Ω、SW、Learning Mode

- Insufficient fuel warning Setting range : 0~3/6  
Setting unit : 1
- Clock Setting range : 12、24H  
Setting range : 00:00~23:59
- Digital Volt meter Display range : DC 8.0~18.0 V  
Display unit : DC 0.1 V
- Low Voltage warning Setting range : DC 8.0~18.0 V  
Setting unit : DC 0.1 V
- Background Display Setting range : AUTO(Optical Sensing) Positive、Negative
- Backlight brightness adjust Setting range : 1/5(Darker)~5/5(Brighter)  
Setting unit : 1/5、
- Backlight color Setting range : White、Red、Orange、Yellow、Green、Blue、Light Blue、Purple
- Target speed timer Setting range : 30~360 km/h (20~223 MPH)  
Setting unit : 5 km/h (MPH)
- Target distance timer Setting range : 50~1,000 M (1/32~20/32 mile)  
Setting unit : 50 M (1/32 mile)
- Top speed timer Setting range :  
1.Speed : 0~360 km/h (0~223 MPH)  
2.Distance : 0~999 M (0~3,280 feet)  
3.RPM : 0~15,000 RPM  
4.Timer : 9:59'99
- Effective voltage DC 12 V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Indicator light color
  - ↔ Turn signal(Green)
  - ⬆ High beam(Blue)
  - N Neutral(Green)
  - ⚠ EOBD(Amber)
  - ⛽ Oil(Red)
  - ⚠ ABS(Yellow)
  - RPM shift light(Red)
  - ⚠ Warning Light(Red、OFF、Quick Flashing、Steady、Slow Flashing)



RXF

The all-new designed RXF comes with the most advanced TFT LCD display technology which make the meter could show more information and bring more possibility to have more functions in the meter. The meter comes with the auto-learning gear meter, so you could use the learning model to make the setting and make the meter show you the gear meter function. With the all-new displays, the power test function comes with more records which you could use to compare the bike adjustment easier. There are so many new functions comewith the RXF, what are you waiting for.



NEW !



**Fuel level**  
●Display range:6 levels

**Tachometer**  
●Display range:0 ~ 20,000 RPM  
●Display unit:1000 RPM

**Speedometer**  
●Display range:0 ~ 360 km/h (0 ~ 225 MPH)  
●Display unit:1 km/h (MPH)

- L turn signal (orange)
- R turn signal (orange)
- High beam light (Blue)
- Neutral light (Green)
- Engine oil pressure light (Red)

Item number



|                                      |  |
|--------------------------------------|--|
| ●Speedometer                         | Display range:0 ~ 360 km/h (0 ~ 225 MPH)<br>Display unit:1 km/h (MPH)  |
| ○Odometer                            | Display range:00000 ~ 99999 km (mile)<br>Display unit:1 km (mile)  |
| ○Trip meter A/B                      | Display range:000.0 ~ 999.9 km (mile)<br>Display unit:0.1 km (mile)  |
| ○Speeding warning light              | Setting range: 30~360 km/h (19~225 MPH)<br>Setting unit: 1 km/h (MPH)  |
| ○Top speed record                    | Display range:0 ~ 360 km/h (0 ~ 225 mph)<br>Display unit:1 km/h (mph)  |
| ○Tire circumference                  | Setting range: 300~2,500 mm<br>Setting unit: 1 mm-Sensor point: 20   |
| ●Gear meter                          | Display range:—(Represent no learning has been proceeded, so system cannot distinguish the gear position), N (Analog), Gear 1 - Gear 9 (Learning has been proceeded, gear position up to Gear 9 if applicable).<br>Setting range: (No Gear Position has been recognized) —Gear 9 if applicable.) |
| ○Accelxation                         | Display range: 0-2.0G for all 4 directions (Front, Rear, Right, and Left)<br>Display unit: 0.1G  |
| ○Lean angel                          | Display range: 0° ~ 60° for both LH & RH side  |
| ●Tachometer                          | Display range: 0 ~ 10000 rpm / 12000 rpm / 15000 rpm / 18000 rpm / 20000 rpm   |
| ○Shift light                         | Setting range: 1,000~15,000 RPM<br>Setting unit: 100 RPM   |
| ○Max RPM record                      | Display range: 0 ~ 10000 rpm / 12000 rpm / 15000 rpm / 18000 rpm / 20000 rpm<br>Setting range: 0.5, 1~24   |
| ○The RPM input signal number setting |  |
| ●HOUR                                | Display range: 0~99999 H<br>Display unit: 1H   |
| ○Hour meter A/B                      | Display range: 000.0 ~ 999.9 H<br>Display unit: 0.1H   |
|                                      | Display unit: °C & °F for alternative  |
|                                      | Display range: 0.0 ~ 250.0 °C (32.0 ~ 482.0 °F)  |
|                                      | Display unit: 0.1 °C (°F)  |
|                                      | Display range: 6 levels  |
|                                      | Setting range: 0~120 °C (32~248 °F)  |
|                                      | Setting unit: 1°C (°F)   |
| ○Top temperature record              | Display range: 20~60 °C (-4.0~140.0 °F)  |
| ●Fuel                                | Display range: 6 levels  |
| ○Insufficient fuel waring            | Setting range: 10~50 %<br>Setting unit: 10 %   |
| ●Calender                            | Display range: 2000 ~ 2099 Year<br>Display range: 1 ~ 12 month<br>Display range: 1 ~ 31 Day<br>Display range: 1 ~ 7 (Monday - Sunday)  |
| ●Clock                               | Display range: 0:00~23:59 (24H)  |
| ●Digital Volt meter                  | Display range: DC 8.0 ~ 18.0 V   |
| ○Level Volt meter                    | Display unit: 0.1 V  |
| ○Low Voltage waring                  | Display range: DC 8.0 ~ 18.0 V<br>Display unit: 0.1 V  |
| ●Backlight brightness adjust         | Setting range:1-5(Darker)—5-5(Brighter)<br>Setting unit: adding 20% each adjustment (5 segments)   |
| ●Target speed timer                  | The record including<br>Speed: 0 ~ 360 km/h (0 ~ 225 mph)<br>RPM: 0~Depending on Current Set of RPM<br>Display Range Timer: 0'00'00 ~ 9'59'99  |
| ●Target distance timer               | The record including<br>Speed: 0 ~ 360 km/h (0 ~ 225 mph)<br>RPM: 0~Depending on Current Set of RPM<br>Display Range Timer: 0'00'00 ~ 9'59'99  |
| ●Top speed timer                     | The record including<br>Speed: 0 ~ 360 km/h (0 ~ 225 mph)<br>RPM: 0 ~ Depending on Current Set of RPM<br>Display Range Timer: 0'00'00 ~ 9'59'99<br>Distance: 0 ~ 999 m (0 ~ 3280 ft)   |
| ●Supply voltage                      | DC 12V   |
| ●Effective temperature range         | -10~+60°C  |
| ●Meter standard                      | JIS D 0203   |
| ●Meter size (W x L x H)              | 162.9 x 92.9 x 37.1 mm   |

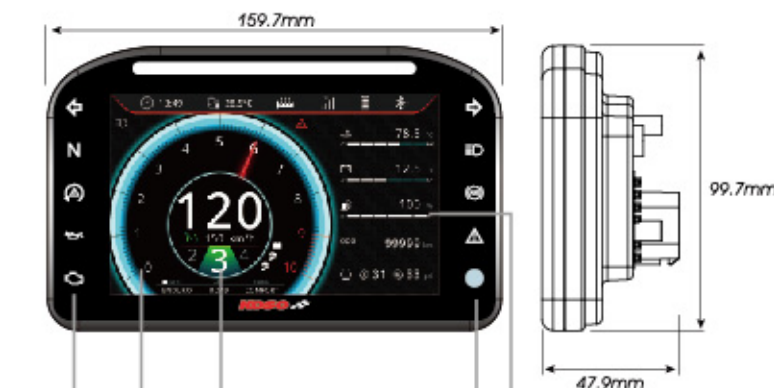


# Unlimit

## GP style

### RX5

New generation meter – RX5 equip with colorful 5" TFT LCD display, Bluetooth® connectivity and extremely user friendly interface to maximize the fun you will have during the riding. The RX5 meter is designated to BMW R1200 GS from model year 2011 to 2017 plug & play. If you have this bike and want to have a new TFT meter like brand new GS model, then this is it --- your best choice! The Bluetooth® connectivity allow you to enjoy the music streaming thru your headset or hands-free and shows the name of the song that you currently listening to, not to mention the incoming call number/contact name display and the navigation directly notification. All those are included in this fantastic instrument, and wait for you to explore.



- Indicator light**
  - Side
- Fuel meter**
  - Display range : 6 level
  - Display unit : 16.6 % each segment
- Gear meter**
  - Display type: Off, Rotary Shift, Return Shift Learn
  - Display range : N, 1~9
- Speedometer**
  - Display range: 0 ~ 360 km/h (0 ~ 223 MPH)
  - Display unit: km/h · MPH

| Item number | Model |
|-------------|-------|
|-------------|-------|



●GPS



●Music



●SPD · RPM · GEAR · ENG TMP ·



●Call



●Temp · Volt · Fuel

|                                 |  |
|---------------------------------|--|
| ●Speedometer                    | Display range : 0~360 km/h (0~223MPH)<br>Display unit : km/h、MPH   |
| ○Average speed record           | Display range : 0~360 km/h (0~223MPH)<br>Display unit : km/h、MPH   |
| ○Max speed record               | Display range : 0~360 km/h (0~223MPH)<br>Display unit : km/h、MPH   |
| ○Average speed record 1         | Display range : 0~360 km/h (0~223MPH)<br>Display unit : km/h、MPH   |
| ○Cruise Control                 | Display range : 30~210 km/h(18~130MPH)<br>Display unit : km/h、MPH  |
| ○Odometer                       | Display range : 0~99,999 km (mile),<br>reset when exceed.<br>Display unit : 1 km (mile)  |
| ●Adjustable Odometer            | Setting range : 0~99,999 km (mile),<br>adjustable<br>Setting unit : 1 km (mile)  |
| ○Trip meter 1、2                 | Display range : 0~9,999.9 km (mile),<br>can be reset<br>Setting unit : 0.1 km (mile)   |
| ○Auto Riding Time Record Trip A | Display range : 0~9,999.9 km (mile),<br>can be reset<br>Setting unit : 0.1 km (mile)   |
| ○Overall Hour Record            | Display range : 0~99,999.9 hr,<br>reset when exceed<br>Display unit : 0.1 hr<br>Dashboard hour=Start counting when key-on          |
| ○Overall Riding time record     | Display range : 0~99,999.9 hr,<br>reset when exceed.<br>Display unit : 0.1 hr Start counting<br>when engine start.                 |
| ○Riding time 1、2                | Display range : 0~9,999.9 hr,<br>reset when exceed<br>Display unit : 0.1 hr  |
| ○Service Date                   | Display range : YYYY.MM.DD<br>Setting range : 1~24 month<br>Setting unit : 1 months  |
| ○Service Remaining Distance     | Display range : -5000~99999km (mile)<br>Display unit : 1km (mile)<br>Setting range : 0~99999km (mile)<br>Setting unit : 1km (mile) |
| ○Range                          | Display range : 0~999km (mile)<br>Display unit : 1km (mile)  |
| ●Gear Meter                     | Display type:Off,Rotary Shift,Return Shift Learn<br>Display range : N,1~9  |
| ○Top Gear Record                | Display range : N,1~9  |
| ○Suggest to shift               | Setting range : ON、OFF   |
| ●Tachometer                     | Display range : 0~10,000 RPM   |

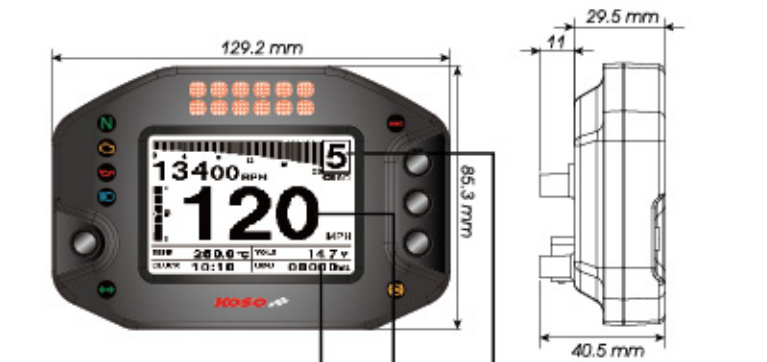
|                              |  |
|------------------------------|--|
| ○Shift Light                 | Display range : 9,000~10,000 RPM<br>Setting range : 2,000~10,000 RPM<br>Setting unit : 100 RPM                           |
| ○MAX RPM Record              | Display range : 0~10,000 RPM   |
| ○Engine Oil Level Warning    | Display range : OK、CHECK   |
| ●Riding Mode                 | Display range : RAIN、ROAD、DYNA、<br>ENDURO、ENDURO PRO、DYNA PRO  |
| ○Immobilizer                 | Display range : CHECK、OUTRG、BATLO  |
| ●Engine Temp. (Digit)        | Display range : 0.0~250 °C (32.0~482°F)<br>Display unit : 0.1 °C (°F)  |
| ●Engine Temp. (Scale)        | Display range : 6 Level<br>Display unit : Each level represents<br>(20 °C、125 °F)  |
| ○Engine Temp. Warning        | Setting range : 60~250 °C (140~482°F)<br>Setting unit : 1 °C (°F)  |
| ○MAX Engine Temp Record      | Display range : 0~250 °C (32~482°F)  |
| ●Fuel Level (Digit)          | Display range : 0~100 %<br>Display unit : 1%   |
| ●Fuel Meter                  | Display range : 6 level<br>Display unit : 16.6 % each segment  |
| ○Low fuel warning            | Setting range : 10~50 %<br>Setting unit : 10 %   |
| ○Fuel Consumption            | Display range : 0~99.9 L/H、G/H<br>Display unit : 0.1 L/H、G/H   |
| ○Fuel Efficiency             | Display range : 0~99.9 L/100km、km/L、<br>MPG(US)、MPG(UK)<br>Display unit : 0.1 L/100km、km/L、MPG(US)、<br>MPG(UK)           |
| ○1、2 Fuel Consumption Record | Display range : 0~9999.9 L、G<br>Display unit : 0.1L、G  |
| ○Average Fuel Efficiency 1、2 | Display range : 0~99.9 L/100km、km/L、<br>MPG(US)、MPG(UK)<br>Display unit : 0.1 L/100km、km/L、MPG(US)、<br>MPG(UK)           |
| ○Date                        | Display range : YYYY.MM.DD   |
| ●Volt meter                  | Display range : DC 8.0~18.0 V<br>Display unit : DC 0.1 V   |
| ●Volt Level                  | Display range : 6 Level<br>Display unit : Each level represents (DC 1.33 V)  |
| ○Voltage Warning             | Setting range : DC 8.0~18.0 V<br>Setting unit : DC 0.1 V   |
| ●TPMS F+R                    | Display range : 1~50 psi (0.0~3.5 bar、<br>7~344kPa、0.0~3.5kgf/cm2)<br>Display unit : 1 psi (0.1 bar、1kPa、<br>0.1kgf/cm2) |

|                                       |  |
|---------------------------------------|--|
| ○TPMS Warning (Low / High)            | Display range :<br>Front tire pressure:LOW(red & yellow)/High(red)<br>Warning value : 22(red)/27(yellow)/35 (red)psi<br>Rear tire pressure:LOW(red & yellow)/High(red)<br>Warning value : 29(red)/34(yellow)/42(red) psi |
| ●Suspension Adjustment                | Setting range : SOFT、NORMAL、HARD   |
| ●ABS Mode                             | Setting range : ON、OFF   |
| ●Spring Preload Mode                  | Setting range : One-up、One-up with<br>luggage、Two-up with luggage)   |
| ○Heated Grips                         | Setting range : OFF、50%、100%   |
| ○LED Auxiliary Headlights             | Display range : ON、OFF   |
| ○DRL                                  | Display range : ON、OFF   |
| ○Automatic Low Beam                   | Display range : ON、OFF   |
| ○Lamp Damage Warning                  | Display range : LAMP R、LAMP F、LAMP S   |
| ○DWA Warning                          | Display range : DWALO、DWA  |
| ○RDC Warning                          | Display range : RDC  |
| ○ESA Warning                          | Display range : ESA  |
| ○Engine Electronic Warning            | Display range : CHECK  |
| ○Error code warning                   | Display range : English + four digits<br>Display range : -10.0~60.0°C (14.0~140.0°F)<br>Display unit : 0.1°C (0.1°F)   |
| ●Air Temperature                      | Setting range : -10~+10°C (14~50°F)<br>Display unit : 1°C (1°F)  |
| ●Black Ice Warning                    | Setting range : -10~+10°C (14~50°F)<br>Setting unit : 1°C (1°F)  |
| ●CLOCK                                | Display range : 00:00~23:59(00:00~11:59)   |
| ●Cellular Signal                      | Display range : 1~4 Level  |
| ●Phone battery                        | Display range : 1~33%、2~3 Level<br>(2=34~66%、2=67%~100%)<br>Display unit : 1%、1 Level  |
| ●Bluetooth Notification (Android、IOS) | Display range : Unconnected、Connected<br>Display range : Message、Social、<br>Mail、Chat App  |
| ●Navigation                           | Display range :<br>Turn Street Name、Estimated Arrival Time、<br>Estimated Distance  |
| ●Call History                         | Display range: 7 Recent Calls  |
| ○Call Display                         | Display range : Incoming Call Image、<br>name、number、time   |
| ●Music Streaming                      | Setting range : -10~+10°C (14~50°F)<br>Setting unit : 1°C (1°F)  |
| ●Black Ice Warning                    | Display range : Song、Singer、Previous、Next<br>Pause、Stop、Play, and progress strip   |
| ○Volume Adjustment +/-                | Display range : 10 Level   |
| ●Effective voltage                    | DC 12 V  |
| ●Effective temperature range          | -10~+60°C  |

|                         |   |
|-------------------------|---|
| ●Meter standard         | JIS D 0203 S2                                 |
| ●Indicator light color: |   |
|                         | Engine Oil Level Warning(Red)                 |
|                         | Neutral (Green)                               |
|                         | ASC / Automatic Steabilization Control(Amber) |
|                         | Turn signal(green)                            |
|                         | ABS(Amber)                                    |
|                         | General Warning Light(Red、Amber)              |
|                         | Immobilizer(Red)                              |
|                         | High Beam(Blue)                               |
|                         | Emissions Warning(Amber)                      |

RS2

All new RS2 multifunction meter has completely User Interface design concept, more user friendly and easy to play with. All the functions you need for daily using, Speedometer, Tachometer, Odometer, Trip, Gear Position, Clock and even have the Dyno function to test target distance and target speed which allows you to have some fun with your bike! RS2 also has multiple backlight colors, so you could pick one you like and suit your bike better, not to mentioned the backlight dimming function also can be setup so it will adjust the backlight brightness automatically for you in the night time. This new toy will bring your fun with the bike to the next level!



**Thermometer**  
 ● Display unit : °C / °F Switchable  
 ● Display range : 0 ~ 250 °C (32 ~ 482 °F)  
 ● Display unit : 0.1 °C (°F)  
 A/F ratio meter  
 ● Display range : 12.1 ~ 16.8  
 ● Display range : 0.1  
 Clock  
 ● Display range : 24 H  
 Volt  
 ● Display range : DC 8.0 ~ 18.0 V  
 ● Display unit : 0.1 V  
 Odometer  
 ● Display range : 0 ~ 99,999 km (mile) return to zero upon exceed.  
 ● Display unit : 1 km (mile)  
 Trip meter A - B  
 ● Display range : 0.0 ~ 9999.9 km (mile) return to zero upon exceed.

**Gear Meter**  
 ● Display range : N - 1~6  
**Speedometer**  
 ● Display range : 0 ~ 360 km/h (0 ~ 223 MPH)  
 ● Display unit : km/h (MPH) Switchable

Item number Backlight color Display range Panel color



Backlight 0 ~ 20,000 RPM Black

|                                   |  |
|-----------------------------------|--|
| ● Speedometer                     | Display range : 0 ~ 360 km/h (0 ~ 223 MPH)<br>Display unit : 1 km/h (MPH) for alternative  |
| ○ Display interval                | < 0.5 Second   |
| ○ Odometer                        | Display range : 0 ~ 99,999 km/h (MPH) reset automatically after 99,999 km (MPH).<br>Display unit : 1 km/h (MPH)                  |
| ○ Trip meter A - B                | Display range : 0 ~ 9999.9 km/h (MPH) reset automatically after 9999.9 km (MPH).<br>Display unit : 0.1 km/h (MPH)                |
| ○ Speeding warning light          | Setting range : 0 ~ 90 km/h (0 ~ 56 MPH)<br>Setting unit : 1 km/h (MPH)  |
| ○ Top speed record (MAX)          | Display range : 0 ~ 360 km/h (0 ~ 223 MPH)<br>Display unit : 1 km/h (MPH)  |
| ○ Tire circumference              | Display range : 300 ~ 2,500 mm<br>Display unit : 1 mm • Sensor point : 1 ~ 60  |
| ● Gear Meter                      | Display range : N - 1~6 • OFF  |
| ● Digital Tachometer              | Display range : 0 ~ 20,000 RPM<br>Display unit : 100 RPM   |
| ● Level Tachometer                | Display range : 0 ~ 9,000 - 12,000 - 15,000 - 18,000 - 20,000 RPM  |
| ○ RPM shift light                 | Setting range : 3,000 ~ 20,000 RPM   |
| ○ Max RPM record                  | Display range : 0 ~ 20,000 RPM   |
| ○ RPM Signal (For Fuel Injection) | Setting range : 0.5, 1 ~ 24  |
| ● Thermometer                     | Display range : °C & °F for alternative  |
| ○ Digital Thermometer             | Display range : 0 ~ 250.0 °C (32.0 ~ 482.0 °F)<br>Setting range : 1 °C (°F)  |
| ○ Temperature warning             | Setting range : 50 ~ 250.0 °C (122.0 ~ 482.0 °F)<br>Display unit : 1 °C (°F)   |
| ○ Top temperature (MAX)           | Display range : 0 ~ 250.0 °C (32.0 ~ 482.0 °F)   |
| ● A/F ratio meter                 | Display range : 12.1 ~ 16.8<br>Display range : 0.1   |
| ● Level Fuel                      | Display range : 6 Level<br>Display unit : 16.6 % each segment  |
| ○ Fuel resistance setting         | Display range : 100 - 250 - 510 - 1200 - SW - Learning   |
| ○ Low Fuel warning                | Setting range : 0 ~ 3/6 格<br>Display unit : 11/6<br>(At) lower than the setting value, warning FI light lit, fuel level glitter. |
| ○ Motor oil maintenance           | Setting range : 500 ~ 16,000 km (312 ~ 10,000 mile)  |
| ○ ABS indicator                   | Setting range : ON/OFF   |

|  |  |
|--|--|
| ● Clock  | Display range : 24 H   |
| ● Digital Volt meter   | Display range : DC 8.0 ~ 18.0 V<br>Display unit : 0.1 V  |
| ● Target speed timer   | Setting range : 30 ~ 360 km/h (20 ~ 223 MPH)<br>Setting unit : 5 km (MPH)  |
| ● Target distance timer  | Setting range : 50 ~ 1,500 M (1/32 ~ 30/32 MPH)<br>Setting unit : 50 M (1/32 MPH)  |
| ● Top speed timer  | The record including<br>Speed : 0 ~ 360 km/h (0 ~ 225 MPH)<br>Distance : 0 ~ 999 M (0 ~ 3,280 feet)<br>RPM : 0 ~ 20,000 RPM<br>Display Range Timer : 9 : 59'99   |
| ● Display & Backlight (Positive and Negative Display of the Main Screen) | Setting range : Time setting switchover (nighttime function is turned off when the before and after time is the same)  |
| ● Back light color   | Setting range : White - Green - Light Blue - Blue - Purple - Red - Orange - Yellow   |
| ○ Liquid Crystal Concentration   | Setting range : 1/3 (Darkest) ~ 3/3 (Brightest)  |
| ○ Back light brightness light  | Setting range : 1/5 (Darkest) ~ 5/5 (Brightest); Separate setting for daytime and nighttime  |
| ○ Brightness (LED Bar)   | Setting range : 1/5 (Darkest) ~ 5/5 (Brightest); Separate setting for daytime and nighttime  |
| ● Supply voltage   | DC 12 V  |
| ● Effective temperature range  | -10 ~ +60 °C   |
| ● Meter standard   | JIS D 0203 (S2)  |
| ● Meter size   | 129.2 x 85.3 x 40.5 mm   |
| ● Meter weight   | Around 151 g   |
| ● Indicator light color  | Neutral (green light) N<br>Engine (yellow light) Y<br>Motor oil (red light) R<br>High beam light (blue light) B<br>Indication light (green light) G<br>IMMO (red light) IMMO<br>ABS (yellow light) ABS |

## XR-01S

Thinner and lighter than its previous version the XR-SA, our innovative XR-01S most importantly feature a larger, higher quality and easy to read LCD display. The indicator light functions are still there; however we have added one more, which makes a total of 6 indicator light. New interesting functions were added and they include a 2 hour meter readings, a maintenance hour meter for oil change, 2 trip meter readings, and a useful clock. The XR-01S is simplicity at its best. This meter is user-friendly, easy to read during day or night, and is a great fit for any kind of motorcycle, scooter or other bike.



- **Speedometer** Display range : 0 ~ 360 km/h (0 ~ 225 MPH)  
Display unit : km/h or MPH for alternative
- **Odometer** Display range : 0 ~ 99,999 km (mile), reset automatically after 99,999 km (mile) · Setting unit : 1 km (mile)
- **Trip meter A · B** Display range : 0 ~ 9,999.9 km (mile), reset automatically after 9,999.9 km (mile) · Display unit : 0.1 km (mile)
- **Oil maintenance mileage** Setting range : 300 ~ 5,000 km (mile)  
Setting unit : per 100 km (mile)
- **Hour meter** Display range : 99,999 hour, reset automatically after 99,999 hour · Display unit : 1 hour
- **Hour meter A · B** Display range : 9,999.9 hour, reset automatically after 9,999.9 hour · Display unit : 0.1 hour
- **MAX speed record** Display range : 0 ~ 360 km/h (0 ~ 225 MPH)
- **Average speed record** Display range : 0 ~ 360 km/h (0 ~ 225 MPH)
- **Tire circumference** Setting range : 300 ~ 2,500 mm  
Setting unit : 1 mm · Sensitive point : 1 ~ 6
- **Fuel meter** Display range : 6 grids
- **Insufficient fuel warning** Setting unit : 100 Ω · 250 Ω · 510 Ω · USER
- **Clock** 24 H
- **Volt meter** Display range : DC 8.0 ~ 18.0 V
- **Volt meter warning** Display range : Flashing warning when voltage lower than 11.5 V or higher than 15.5 V
- **Effective voltage** DC 12 V
- **Effective temperature range** -10 ~ +60 °C
- **Meter standard** JIS D 0203 S2
- **Meter size** 77.5 X 74.8 X 34 mm
- **Meter weight** Around 87 g
- **Indicator light color** Turn signal (Green) · Neutral (Green) · Warning Light (Red) · Engine Light (Yellow) · High beam light (Blue)

Item number  
Backlight color Display range Panel color



\* 8 8 0 2 6 0 0 1 \*  
White 0-360 km/h



- **Speedometer** Display range : 0 ~ 360 km/h (0 ~ 225 MPH)  
Display unit : km/h or MPH for alternative
- **Odometer** Display range : 0 ~ 99,999 km (mile), reset automatically after 99,999 km (mile) · Setting unit : 1 km (mile)
- **Trip meter A · B** Display range : 0 ~ 9,999.9 km (mile), reset automatically after 9,999.9 km (mile) · Display unit : 0.1 km (mile)
- **Oil maintenance mileage** Setting range : 300 ~ 5,000 km (mile)  
Setting unit : per 100 km (mile)
- **Hour meter** Display range : 99,999 hour, reset automatically after 99,999 hour · Display unit : 1 hour
- **Hour meter A · B** Display range : 9,999.9 hour, reset automatically after 9,999.9 hour · Display unit : 0.1 hour
- **MAX speed record** Display range : 0 ~ 360 km/h (0 ~ 225 MPH)
- **Average speed record** Display range : 0 ~ 360 km/h (0 ~ 225 MPH)
- **Tire circumference** Setting range : 300 ~ 2,500 mm  
Setting unit : 1 mm · Sensitive point : 1 ~ 6
- **Fuel meter** Display range : 6 grids
- **Insufficient fuel warning** Setting unit : 100 Ω · 250 Ω · 510 Ω · USER
- **Clock** 24 H
- **Volt meter** Display range : DC 8.0 ~ 18.0 V
- **Volt meter warning** Display range : Flashing warning when voltage lower than 11.5 V or higher than 15.5 V
- **Effective voltage** DC 12 V
- **Effective temperature range** -10 ~ +60 °C
- **Meter standard** JIS D 0203 S2
- **Meter size** 77.5 X 74.8 X 34 mm
- **Meter weight** Around 87 g

Item number  
Backlight color Display range Casing



\* 8 8 0 2 6 0 0 0 \*  
White 0-360 km/h

## XR-01

Thinner and lighter than its previous version the XR-S, our innovative XR-01 most importantly features a larger, higher quality and easy to read LCD display. New interesting functions were added such as a 2 hour meter readings, a maintenance hour meter for oil change, 2 trip meter readings, and a useful clock. This meter is simple, user-friendly, and easy to read during day or night riding. The XR-01 meter is a great fit for any kind of motorcycle, scooter, ATV and more!



# XR-SRN+

The XR-SR multi-functions speedometer was designed especially for motorcycles and ATV's. Its digital screen will provide important informations on your engine. The 8 indicator lights can be adapted to all motorcycles and ATV's. Its great shape and digital display will make your bike look different!



Power test record



MAX record

- Tachometer**
  - Display range: 0~18,000 RPM.
  - Display unit: 100 RPM.
- Clock**
  - 24H
- Level thermometer**
  - Display range: 20~120°C (68~248°F), 10 levels.
  - Display unit: Each level represents 10°C (50°F).

Item number  
Backlight color Display range Panel color



\* B B 0 1 7 B 6 0 \*  
Blue 0~18,000 RPM Black

### Option accessory

- |  |  |  |  |
|--|--|--|--|
| <p><b>1</b> Also magnet screw</p> <p>M10 x P1.0 x 22.5<br/>M10 x P1.0 x 25.0<br/>M10 x P1.0 x 27.5<br/>M10 x P1.0 x 30.0<br/>M10 x P1.0 x 32.5<br/>M10 x P1.0 x 35.0</p> | <p><b>2</b> Active speed sensor</p>  | <p><b>3</b> Digital speed signal sensor</p> <p>JIS TYPE O</p>  | <p><b>4</b> Digital speed signal sensor</p> <p>JIS TYPE A</p>    |
| <p><b>5</b> Digital speed signal sensor</p> <p>BARBARO</p>   | <p><b>6</b> Digital speed signal sensor</p> <p>X-RACE BOOSTER</p>                | <p><b>7</b> Type speed sensor bracket</p>  | <p><b>8</b> Temp sensor wire set (2 M)</p>                       |
| <p><b>9</b> Oil temp sensor adaptor</p> <p>M10 x P1.0 x 16<br/>M10 x P1.0 x 18<br/>M10 x P1.0 x 20<br/>M10 x P1.0 x 22<br/>M10 x P1.0 x 24<br/>M10 x P1.0 x 26</p>       | <p><b>10</b> Water temp sensor adaptor</p> <p>M14<br/>M16/M18<br/>M22/M26 mm</p> | <p><b>11</b> Temp sensor</p> <p>M10 x P1.0<br/>M12 x P1.0<br/>M14 x P1.0<br/>M16 x P1.0<br/>M18 x P1.0</p> | <p><b>12</b> Cylinder head temp sensor</p> <p>M10<br/>M14 mm</p> |



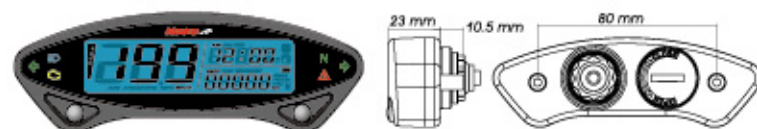
- Speedometer Display range: 0~360 km/h (0~225 MPH)  
Display unit: km/h & MPH for alternative
- Display Internal <0.5 second
- Odometer Display range: 0~99999.9 km (mile), reset automatically after 99999.9 km (mile)  
Display unit: 0.1 km (mile)
- Trip meter A/B Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Top speed record Display range: 0~360 km/h (0~225 MPH)
- Tire circumference Setting range: 300~2,500 mm  
Setting unit: 1 mm • Pulse setting: 1~20
- Tachometer Display range: 0~18,000 RPM  
Display unit: 100 RPM
- Display Internal <0.5 second
- MAX RPM record Display range: 0~18,000 RPM
- The RPM input signal number setting Setting range: 0.5, 1~24
- The RPM input pulse Setting range: Hi (The positive wave pulse)  
Lo (The negative wave pulse)
- Thermometer Display unit: °C & °F for alternative
- Digital thermometer Display range: 0~120°C (32~248°F)  
Display unit: 0.1°C (°F)
- Thermometer level Display range: 20~120°C (68~230°F), 10 segment bar graph  
Display unit: 10°C (50°F) for each segment
- Top temperature record Display range: 0~120°C (32~248°F)
- Fuel level Display range: 10 segment bar graph  
Display unit: 10% for each segment  
Setting range: 100Ω, 250Ω, 510Ω, 1200Ω, SW
- Fuel warning Setting range: 10~50% ; Setting unit: 10%
- Clock 24H
- Volt meter Display range: DC 8~18 V. Flashing warning when Voltage lower than 11.5 V or higher than 15.5 v.
- Top speed timer The record including.  
Speed : 0~360 km/h (0~225 MPH)  
Distance : 0~999 M (0~3280 feet)  
Timer : 0~9'59'99 seconds
- Effective voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 116.3 X 72.4 X 32.3 mm
- Meter weight Around 286 g
- Telltales
  - ↔ Repeater (Green)
  - ⬆ Low beam (Green)
  - ⬆ High beam (Blue)
  - N Neutral (Green)
  - ⚠ Hazard (Red light)
  - ⬆ Temperature alarm (Red)
  - ⬆ Oil (Red)



E-mark approval

## EX-02S

With its modern look, this EX-02S is the perfect meter for all dual applications. Its illuminated backlight makes the instrument very easy to read even when you ride at night. The EX-02S is equipped with all basic function and more. Featuring speed, odometer, trip meter, hour meter, voltage, clock and stopwatch as well as 6 indicator lights, this meter will give you all information you need.



|                              |  |
|------------------------------|--|
| ●Speedometer                 | Display range: 0~360 km/h (0~225 MPH)<br>Display unit: km/h & MPH for alternative <0.5 second  |
| ○Display internal            | Display range: 0~99999 km (mile), reset automatically after 99999km (mile)   |
| ○Odometer                    | Display unit: 1 km (mile)  |
| ○Trip meter                  | Display range: 0~9999.9 km (mile), reset automatically after 9999.9 km (mile)  |
|                              | Display unit: 0.1 km (mile)  |
| ○Hour mete                   | Display range: 0~9999.9 hour<br>reset automatically after 9999.9 hour  |
|                              | Display unit: 0.1 hour   |
| ○Clock                       | 12/24 MODE   |
| ●Volt                        | 8~18V  |
| ●Inner Battery Level         | Display range: 4 levels.   |
| ●Clock                       | 12/24 MODE   |
| ●Supply voltage              | DC 12V   |
| ●Effective temperature range | -10~+60°C  |
| ●Meter standard              | JIS D 0203   |
| ●Meter size (W X L X H)      | 120 X 40 X 23mm  |
| ●Meter weight                |  |
| ●Indicator light color       | <ul style="list-style-type: none"> <li>⬇ High beam light (Blue)</li> <li>↔ Direction light (Green)</li> <li>⬆ Engine Light (Yellow)</li> <li>N Neutral (Green)</li> <li>⚠ Warning Light (Red)</li> </ul> |

Item number  
Backlight color Display range Panel color



White On road Black

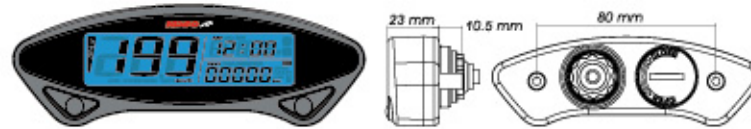
Option accessory



E-mark approval

## EX-02

With its compact shape and waterproof connectors, the EX-02 is the perfect meter for all off road applications. The illuminated backlight makes the instrument very easy to read even in the darkest conditions. The EX-02 is equipped with all the basic functions such as speed, odometer, trip meter as well as hour meter, voltage, clock and stopwatch.



|                              |   |
|------------------------------|---|
| ●Speedometer                 | Display range: 0~360 km/h (0~225 MPH)<br>Display unit: km/h & MPH for alternative <0.5 second |
| ○Display internal            | Display range: 0~99999 km (mile), reset automatically after 99999km (mile)                    |
| ○Odometer                    | Display unit: 1 km (mile)   |
| ○Trip meter                  | Display range: 0~9999.9 km (mile), reset automatically after 9999.9 km (mile)                 |
|                              | Display unit: 0.1 km (mile)   |
| ○Hour mete                   | Display range: 0~9999.9 hour<br>reset automatically after 9999.9 hour                         |
|                              | Display unit: 0.1 hour  |
| ○Clock                       | 12/24 MODE  |
| ●Volt                        | 8~18V   |
| ●Inner Battery Level         | Display range: 4 levels.  |
| ●Clock                       | 12/24 MODE  |
| ●Supply voltage              | DC 12V  |
| ●Effective temperature range | -10~+60°C   |
| ●Meter standard              | JIS D 0203  |
| ●Meter size (W X L X H)      | 120 X 40 X 23mm   |

Item number  
Backlight color Display range Panel color



White Off road Black



## DB-01R+

Our DB-01R+ is an upgraded version of our popular DB-01R. Perfect for motorcycle, street fighters or dual-sports motorcycle, this meter features a large LED display which uses 3 different colors changeable backlights to make it easier to read during day or night riding. Get every information you need on this unique and lightweight meter that will enhance your motorcycle.



- Speedometer Display range: 0–360 km/h (0–224 MPH)  
Display unit: km/h & MPH for alternative
- Display internal <0.5 second
- Odometer Display range: 0–99999 km (mile), reset automatically after 99999 km (mile).  
Display unit: 0.1 km (mile)
- Trip meter A/B Display range: 0–999.9 km (mile), reset automatically after 999.9 km (mile).  
Display unit: 0.1 km (mile)
- Tire circumference Setting range: 300–2,500 mm  
Setting unit: 1 mm Sensitive point: 1–20
- Bar graph tachometer Display range: 10,000, 12,000, 15,000 RPM  
Display unit: 500 RPM
- Display internal <0.5 second
- RPM input pulse Range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6
- Fuel meter Display range: 6 levels  
Display unit: Each level represents 16.6 %  
Setting range: 100Ω, 250Ω, 510Ω, 1200Ω
- Insufficient fuel warning Display range: The fuel reserve symbol begins to flash if only 1 grids left  
When Stage 0, the fuel indicator will light up
- DC 12V
- Effective voltage
- Effective temperature range -10–+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 130 X 54 X 42.5 mm
- Meter weight Around 90 g
- Telltales  
N Neutral (Green) ; H High beam (Blue)  
↔ Direction (Green) ; F Fuel (Yellow)  
O Oil (Red) ; E EOB (Amber)

| Item number | Backlight color | Display range | Panel color |
|-------------|-----------------|---------------|-------------|
| BA027000    | Blue            | 0–360 km/h    | Black       |



|          |      |            |       |
|----------|------|------------|-------|
| BA027000 | Blue | 0–360 km/h | Black |
|----------|------|------------|-------|



- Speedometer Display range: 0 – 360 km (0 – 225 mile)  
Will blink when exceed range.
- Odometer Display range: 0 – 99,999.9 km (mile), return to zero upon exceed.
- Trip meter A - B Display range: 0 – 999.9 km (mile), return to zero upon exceed.
- Motor oil maintenance millage Display range: Metric Unit :500 (~ 8,000 km, user adjustable) ~ 999 km, automatic decrease according to the increase of total mileage.
- Maximum speed record Display range: 0 – 360 km (0 – 225 mile)
- Average speed record Recording range: 0 – 360km/h (0 – 225 MPH)
- Tire circumference Setting range: 300 – 2,500 mm
- Sensitive point Setting range: 1 – 20 points
- Tachometer Display range: 0 – 10,000 RPM - 0 – 12,000 RPM - 0 – 15000 RPM
- The RPM input signal number setting Setting range: P-0.5, P-1 – P-25
- Total hour meter Display range: 0 – 99,999.9 hour
- The RPM input pulse Setting range: lo-Act, HI-Act
- Hour meter A - B Display range: 0 – 9,999.9 hour
- Fuel level Setting range: 100Ω - 250Ω - 270Ω - 510Ω - 1200Ω - SWITCH - USER
- Staged fuel gauge Warning range: Fuel level warning stage below (including) setting value, fuel level symbol will blink.
- Digital fuel gauge Setting range: 0 – 100 %
- Low fuel warning Setting range: 10 – 50 %, when lower than (including) setting value, fuel level symbol will blink.
- Volt meter Display range: DC8.0 V – 16.0 V
- Clock format Setting range: 12-hrs format, 24-hrs format
- Internal ODO Display range: 0–99999.9 km (mile), user unadjustable.
- External ODO Setting range: 0–99999 km (mile)
- Effective voltage DC 12 V
- Effective temperature range -10 – +60 °C
- Meter standard JIS D 0203 (S2)
- Meter size / Meter weight 120 x 46 x 20 mm / Around 240 g
- Indicator light Neutral (green) Right indication light (green) Water temperature (red)  
Motor oil (red) High beam light (blue) Left indication light (green)  
Fuel (yellow) Engine (yellow)

| Item number | Backlight color | Display range | Casing |
|-------------|-----------------|---------------|--------|
| BA041000    | White           | 0–360 km/h    | Black  |



|          |       |            |       |
|----------|-------|------------|-------|
| BA041000 | White | 0–360 km/h | Black |
|----------|-------|------------|-------|

## DB-01RN

Our DB-01RN is a complete multifunction meter that will look perfect on your sports bike, street fighter or dual-sports motorcycle. It's large motorcycle and sleek design shape will give your motorcycle a unique look. Want something different? Set your motorcycle apart with the KOSO DB-01RN meter!





### DB-02

The new DB-02 works with the inner battery is designed for the off-road bike without battery. With the new dynamic design shape, the DB-02 could fit your off-road bike or ATV well. With the changeable bar graphic tachometer function, you could adjust the bar graphic tachometer to fit different types engine as you need. Except that, the new designed 3 stage shift light could make you to make the gear shift timing perfect. Besides that, we add the digital tachometer function, so you could also switch the digital speedometer to digital tachometer when you want to use the meter on the race.



#### 3 stages RPM shift light

- Setting range: 5,000~20,000 RPM
- Setting unit: 100 RPM



#### Speedometer

- Display range: 0~360 km/h (0~225 MPH)
- Display unit: km/h & MPH for alternative.

#### Digital Tachometer

- Display range: 20,000 RPM.
- Display unit: 10 RPM.



Speeding warning light



Temperature alarm



Max. record

Item number  
Backlight color / Display range / Panel color



**Attention!**



White 0~20,000 RPM Black  
DB02 ONLY Black

#### Option accessory

- 1 Disc magnet screw  
M16 X P1.5 X 20 (1)  
M16 X P1.5 X 10 (2)  
M16 X P1.5 X 12 (3)  
M16 X P1.5 X 15 (4)  
M16 X P1.5 X 20 (5)  
M16 X P1.5 X 25 (6)
- 2 Type speed sensor bracket
- 3 Temp sensor wire set (2 M)
- 4 Oil temp sensor adapter  
M12 X P1.5 X 16  
M12 X P1.5 X 18  
M12 X P1.5 X 20  
M12 X P1.5 X 22  
M12 X P1.5 X 24  
M12 X P1.5 X 26
- 5 Water temp sensor adapter  
M14  
M16  
M18  
M22, M26 mm
- 6 Temp sensor  
M10 X P1.0  
M12 X P1.0  
M14 X P1.25  
M14 X P1.0  
M16 X P1.5 / M18 X P1.0
- 7 Cylinder head temp sensor  
M14 (1/1)



#### Temperature alarm A/B

- Display range: 60~250°C (140~482°F)
- Display unit: 1°C (°F)

#### Volt meter

- Display range: DC 0~18.0 V
- Display unit: DC 0.1 V

#### Fuel meter

- Display range: 0~100%
- Setting range: 100 Ω, 510 Ω, no display

#### Clock

- 24 H



Target Speed timer test



Target distance timer test



Top speed test

Item number  
Backlight color / Display range / Panel color



White 0~20,000 RPM Black

#### Option accessory

- 1 Disc magnet screw  
M16 X P1.5 X 20 (1)  
M16 X P1.5 X 10 (2)  
M16 X P1.5 X 12 (3)  
M16 X P1.5 X 15 (4)  
M16 X P1.5 X 20 (5)  
M16 X P1.5 X 25 (6)
- 2 Type speed sensor bracket
- 3 Temp sensor wire set (2 M)
- 4 Oil temp sensor adapter  
M12 X P1.5 X 16  
M12 X P1.5 X 18  
M12 X P1.5 X 20  
M12 X P1.5 X 22  
M12 X P1.5 X 24  
M12 X P1.5 X 26
- 5 Water temp sensor adapter  
M14  
M16  
M18  
M22, M26 mm
- 6 Temp sensor  
M10 X P1.0  
M12 X P1.0  
M14 X P1.25  
M14 X P1.0  
M16 X P1.5 / M18 X P1.0
- 7 Cylinder head temp sensor  
M14 (1/1)

### DB-02R

The new DB-02R is designed for the street bike with battery. With the elegant white Backlight, the meter display will become very clear in the night time. Same as the DB-02, the meter comes with the changeable graphic tachometer which could fit almost all kinds of engines on the market. Except the function DB-02 has, the DB-02R comes with the power test function for you to test the performance of your bike. The new added engine hour meter is designed for you to maintain the engine especially for the dirt bike or ATV.



# Unlimit DB-02

|                              |   |
|------------------------------|---|
| ●Speedometer                 | Display range: 0~360 km/h (0~225 MPH)<br>Display unit: km/h & MPH for alternative   |
| ○Display internal            | <0.5 second   |
| ○Odometer                    | Display range: 0~99999 km (mile), reset automatically after 0~99999 km (mile)<br>Display unit: 1 km (mile)  |
| ○Trip meter A/B              | Display range: 0~999.9 km (mile), reset automatically after 0~999.9 km (mile)<br>Display unit: 0.1 km (mile)  |
| ○Speeding warning light      | Setting range: 30~360 km/h (19~225 MPH)<br>Setting unit: 1 km/h (MPH)   |
| ○Top speed record            | Display range: 0~360 km/h (0~225 MPH)   |
| ○Tire circumference          | Setting range: 300~2,500 mm<br>Setting unit: 1 mm·Sensor point: 6   |
| ●Digital Tachometer          | Display range: 20,000 RPM<br>Display unit: 10 RPM   |
| ●Bar graph tachometer        | Display range: 10,000 RPM, 60 segment bar graph<br>Display unit: 166 RPM for each segment<br>Display range: 15,000 RPM, 60 segment bar graph<br>Display unit: 250 RPM for each segment<br>Display range: 20,000 RPM, 60 segment bar graph<br>Display unit: 333 RPM for each segment |
| ○RPM shift light             | Display range: 5,000~20,000<br>Display unit: 100 RPM  |
| ○Pre-shift light A/B         | Display range: -500~-5,000 before the shift light<br>Display unit: 100 RPM  |
| ○Max. RPM record             | Display range: 0~20,000 RPM   |
| ○RPM input pulse             | Display range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6  |
| ●Hour meter                  | Display range: 0~999.9 H<br>Display unit: 0.1 H (6 S)   |
| ●Thermometer                 | Display unit: °C & °F for alternative   |
| ●Thermometer A/B             | Display range: 0~250°C (32~482°F)<br>Display unit: 0.1°C (°F)   |
| ○Display internal            | <0.5 second   |
| ○Temperature alarm A/B       | Display range: 60~250°C (140~482°F)<br>Display unit: 1°C (°F)   |
| ○Top temperature record      | Display range: 0~250°C (32~482°F)   |
| ●Volt meter                  | Display range: DC 0~18.0 V<br>Display unit: DC 0.1 V  |
| ●Backlight                   | DC 12V  |
| ●Battery type (LCD display)  | CR 2032   |
| ●Battery life time           | Around 220 hours nonstop  |
| ●Effective temperature range | -10~+60°C   |
| ●Meter standard              | JIS D 0203 S2   |
| ●Meter size                  | 100 X 60 X 20 mm  |
| ●Meter weight (W X L X H)    | Around 200 g  |
| ●Telltails                   | <ul style="list-style-type: none"> <li>○ Speeding (Red)</li> <li>○ Temperature alarm A/B (Red)</li> <li>○ RPM shift light A (Yellow)</li> <li>○ RPM shift light B (Orange)</li> <li>○ RPM Shift light (Red)</li> </ul>  |

# DB-02R

|                              |   |
|------------------------------|---|
| ●Speedometer                 | Display range: 0~360 km/h (0~225 MPH)<br>Display unit: km/h & MPH for alternative   |
| ○Display internal            | <0.5 second   |
| ○Odometer                    | Display range: 0~99999 km (mile), reset automatically after 0~99999 km (mile)<br>Display unit: 1 km (mile)  |
| ○Trip meter A/B              | Display range: 0~999.9 km (mile), reset automatically after 0~999.9 km (mile)<br>Display unit: 0.1 km (mile)  |
| ○Speeding warning light      | Setting range: 30~360 km/h (19~225 MPH)<br>Setting unit: 1 km/h (MPH)   |
| ○Top speed record            | Display range: 0~360 km/h (0~225 MPH)   |
| ○Tire circumference          | Setting range: 300~2,500 mm<br>Setting unit: 1 mm·Sensor point: 20  |
| ●Digital Tachometer          | Display range: 20,000 RPM<br>Display unit: 10 RPM   |
| ●Bar graph tachometer        | Display range: 10,000 RPM, 60 segment bar graph<br>Display unit: 166 RPM for each segment<br>Display range: 15,000 RPM, 60 segment bar graph<br>Display unit: 250 RPM for each segment<br>Display range: 20,000 RPM, 60 segment bar graph<br>Display unit: 333 RPM for each segment |
| ○RPM shift light             | Display range: 5,000~20,000<br>Display unit: 100 RPM  |
| ○Pre-shift light A/B         | Display range: -500~-5,000 before the shift light<br>Display unit: 100 RPM  |
| ○Max. RPM record             | Display range: 0~20,000 RPM   |
| ○RPM input pulse             | Display range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6  |
| ●Hour meter                  | Display range: 0~999.9 H<br>Display unit: 0.1 H (6 S)   |
| ●Thermometer                 | Display unit: °C & °F for alternative   |
| ●Thermometer A/B             | Display range: 0~250°C (32~482°F)<br>Display unit: 0.1°C (°F)   |
| ○Display internal            | <0.5 second   |
| ○Temperature alarm A/B       | Display range: 60~250°C (140~482°F)<br>Display unit: 1°C (°F)   |
| ○Top temperature record      | Display range: 0~250°C (32~482°F)   |
| ●Fuel meter                  | Display range: 0~100%<br>Setting range: 100Ω, 510Ω, no display<br>Setting unit: 10~50 %   |
| ○Insufficient fuel warning   | Setting range: 10~50 %<br>Setting unit: 10 %  |
| ●Volt meter                  | Display range: DC 0~18.0 V<br>Display unit: DC 0.1 V  |
| ●Target speed timer          | Setting range: 30~360 km/h (20~225 MPH)<br>Setting unit: 5 km/h (MPH)   |
| ●Target distance timer       | Setting range: 1/32~30/32 mile (50~1,500 M)<br>Setting unit: 1/32 mile (50 M)   |
| ●Top speed timer             | The record including,<br>1. Speed: 0~360 km/h (0~225 MPH)<br>2. Distance: 0~999 M (0~3,280 feet)<br>3. RPM: 0~20,000 RPM<br>4. Timer: 0~9'59"99 second.   |
| ●Effective voltage           | DC 12V  |
| ●Effective temperature range | -10~+60°C   |
| ●Meter standard              | JIS D 0203 S2   |
| ●Meter size                  | 100 X 60 X 20 mm  |
| ●Meter weight (W X L X H)    | Around 200 g  |
| ●Telltails                   | <ul style="list-style-type: none"> <li>○ Speeding (Red)</li> <li>○ Temperature alarm A/B (Red)</li> <li>○ RPM shift light A (Yellow)</li> <li>○ RPM shift light B (Orange)</li> <li>○ RPM Shift light (Red)</li> </ul>  |



E-mark approval

## THE PLUG-IN INDICATOR KIT FOR DB-02 & DB-02R

The indicator light kit is developed for the DB-02 & DB-02R meter for on-road use. Unlike the indicator light kit in the market, the new indicator light kit comes with different telltale symbols, so you could assemble it according to your own demands. There is no need to force yourself to fit some kit doesn't match your bike any more.



|                              |                        |
|------------------------------|------------------------|
| ●Effective voltage           | DC 12 V                |
| ●Effective temperature range | -10~+60°C              |
| ●Meter standard              | JIS D 0203 S2          |
| ●Meter size (W X L X H)      | 141.5 X 72.4 X 18.4 mm |
| ●Meter weight                | Around 68.5g           |

| Item number | Backlight color | Display range | Panel color |
|-------------|-----------------|---------------|-------------|
|-------------|-----------------|---------------|-------------|



Black

### Option accessory

|        |       |       |
|--------|-------|-------|
|        |       |       |
| Green  | Black | Black |
|        |       |       |
| Blue   | Black | Black |
|        |       |       |
| Red    | Black | Black |
|        |       |       |
| Orange | Black | Black |
|        |       |       |
| Black  | Black | Black |



E-mark approval

## DB-03R

The DB-03R is the perfect fit for any street bikes. Its blue backlight makes it very easy to read at night even at high speed. The integrated indicator lights do provide all the necessary information for any street use. The changeable RPM scale allows this gauge to fit about any engine applications. This instrument also features a gear indicator and shift light which will allow you to shift in the perfect gear. Beside those great functions, the DB-03R features: speed, odometer, trip meter, RPM, temperature, volt, fuel level and a lot more!



**The RPM Red, Yellow shift light**  
 ● Setting range: 1,000~15,000 RPM  
 ● Setting unit: 100 RPM  
 ● Warning: Light on (F-OFF), Flash (F-ON)

**Temperature warning**  
 ● Setting range: 60~250°C (140~482°F)  
 ● Setting unit: 1°C (°F)



Temperature alarm



MAX record

| Item number | Backlight color | Display range | Panel color | Item number | Backlight color | Display range | Panel color |
|-------------|-----------------|---------------|-------------|-------------|-----------------|---------------|-------------|
|-------------|-----------------|---------------|-------------|-------------|-----------------|---------------|-------------|



|      |           |       |      |           |       |
|------|-----------|-------|------|-----------|-------|
| Blue | Universal | Black | Blue | Handa MSX | Black |
|------|-----------|-------|------|-----------|-------|

### Option accessory

|  |   |   |  |
|--|---|---|--|
| <p><b>1</b> Disc magnet screw</p> <p>M10 x 22.5 L<br/>                 M8 x 10.5 x 0.2<br/>                 M8 x P1.5 x 12.4<br/>                 M8 x P1.5 x 10.5<br/>                 M8 x P1.5 x 24</p> | <p><b>2</b> Type speed sensor bracket</p> <p>M10 x P1.5<br/>                 M12 x P1.5<br/>                 M14 x P1.5<br/>                 M16 x P1.5</p> | <p><b>3</b> Temp sensor wire set (2 M)</p> <p>M10 x P1.5 x 22.5 L<br/>                 M8 x P1.5 x 10.5<br/>                 M8 x P1.5 x 24</p> | <p><b>4</b> Oil temp sensor adapter</p> <p>M12 x P1.5 x 15 L<br/>                 M14 x P1.5 x 15 L<br/>                 M16 x P1.5 x 15 L<br/>                 M18 x P1.5 x 15 L<br/>                 M20 x P1.5 x 15 L</p> |
| <p><b>5</b> Water temp sensor adapter</p> <p>M14<br/>                 M15, M18<br/>                 M22, M26 mm</p>  | <p><b>6</b> Temp sensor</p> <p>M10 x P1.5<br/>                 M12 x P1.5<br/>                 M14 x P1.5<br/>                 M16 x P1.5 / M18 x P1.5</p>  | <p><b>7</b> Cylinder head temp sensor</p> <p>M10<br/>                 M14 mm</p>  |  |

- Speedometer Display range: 0~360 km/h (0~225 MPH)  
Display unit: km/h (MPH), for alternative <0.5 second
- Display internal
- Odometer Display range: 0~99999 km (mile), reset automatically after 99999 km (mile)  
Display unit: 1 km (mile)
- Trip meter A/B Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Speeding warning Setting range: 30~360 km/h (19~225 MPH)  
Setting unit: 1 km/h (MPH)
- Total hour meter Display range: 0~99999 H  
Display unit: 1 H
- Hour meter A,B Display range: 0.0~999.9 H  
Display unit: 0.1 H
- Tire circumference Setting range: 300~2,500 mm  
Setting unit: 1 mm • Sensitive point: 1~20
- Tachometer Display range: 0~10,000 / 0~12,000 / 0~15,000 RPM  
Display unit: 10,000 RPM-Each level represents 166 RPM, 12,000 RPM-Each level represents 200 RPM, 15,000 RPM-Each level represents 250 RPM  
<0.5 second
- Display internal
- The RPM Red, Yellow shift light Setting range: 1,000~15,000 RPM  
Setting unit: 100 RPM
- Warning Light on (F-OFF) / Flash (F-ON)
- MAX RPM record Display range: 0~10,000 / 0~12,000 / 0~15,000 RPM
- The RPM input signal number setting Setting range: 0.5, 1~24
- The RPM input pulse Setting range: HI (The positive wave pulse)  
Lo (The negative wave pulse)
- Temperature unit Display unit: °C & °F for alternative
- Thermometer Display range: 0.0~250.0°C (32.0~482.0°F)  
Display unit: 0.1°C (°F)
- Over heat warning (Water temperature) Setting range: 60~250°C (140~482°F)  
Setting unit: 1°C (°F)
- Top temperature record Display range: 0~250°C (32~482°F)
- Gear meter Display range: N, 1, 2, 3, 4, 5, 6, 7, 8, 9
- Fuel meter Display unit: Each level represents 16.6 %  
Setting range: 100Ω, 250Ω, 510Ω, 1200Ω, SW 24H
- Clock
- Volt meter Display range: DC 8~18 V. Flashing warning when Voltage lower than 11.5 V or higher than 15.5 v
- Backlight brightness Setting range: 1-5 (Darkest)~5-5 (Brightest)  
Display unit: Each level represents 20 %
- Backlight color Setting range: blue, orange, light purple
- Effective voltage **DC 12V**
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 120 X 68.5 X 44.1 mm
- Meter weight Around 127.3 g
- Telltales
  - Ⓛ High beam (Blue) ⇄ Repeater (Green)
  - Ⓝ Neutral (Green) Ⓞ EOBD (Amber)
  - Ⓣ Oil (Red) Ⓢ Speeding warning (Red)
  - Ⓡ RPM shift light (Yellow / Red)
  - Ⓢ Temperature alarm (Red)



## Race

### GP style

## RX1NR+

Most of the tachometers designed for race is digital, and many racers really want to have a big tachometer works in needle for them to check the RPM easily during the race. Now KOSO bring you the new race RX1NR+ with the 64 mm needle tachometer driven by the stepper motor with real time respond, and a temperature meter for you to check the engine situation during the race.

With the shift light and max record function, you could get all the information you need for race.

Get the new RX1NR to monitor your engine, and enjoy the race.



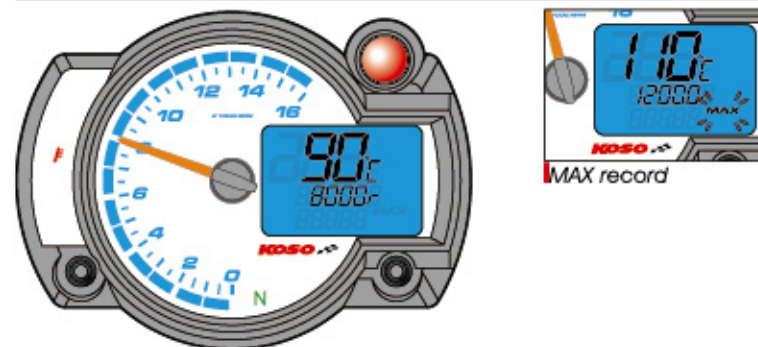
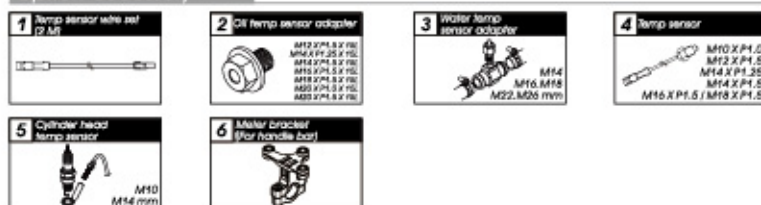
|                              |   |
|------------------------------|---|
| ●Tachometer                  | Display range: 0~16,000 RPM   |
| ●Digital Tachometer          | Display range: 0~16,000 RPM ; Display unit: 100 RPM                         |
| ○Shift light (Red / Yellow)  | Display range: 0~16,000 RPM ; Display unit: 100 RPM                         |
| ○MAX RPM record              | Display range: 0~16,000 RPM   |
| ○Piston setting              | Setting range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6                              |
| ○The RPM input pulse         | Setting range: Hi (The positive wave pulse)<br>Lo (The negative wave pulse) |
| ●Thermometer                 | Display range: 0~250°C (32~399°F)   |
| ○Over heat warning light     | Setting range: 60~250°C (140~399°F)<br>Setting unit: 1°C (°F)               |
| ●Backlight color             | Blue  |
| ●Battery type                | 9V-1604, 6LR61  |
| ●Effective temperature range | -10~+60°C   |
| ●Meter standard              | JIS D 0203 S2   |
| ●Meter size (W X L X H)      | 151.8 X 81.5 X 52.5 mm  |
| ●Meter weight                | Around 212 g  |

Item number  
Backlight color Display range Panel color



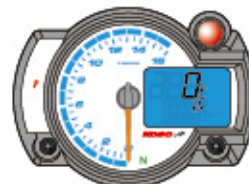
Barcode  
Blue 0~16,000 RPM Black

#### Option accessory



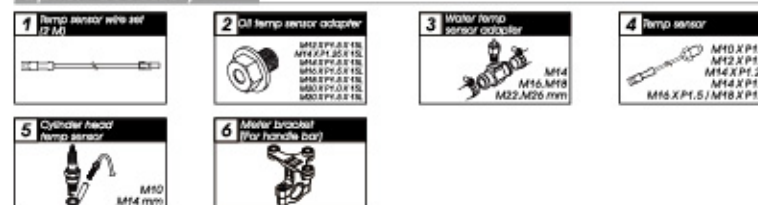
|                              |   |
|------------------------------|---|
| ●Tachometer                  | Display range: 0~16,000 RPM   |
| ●Digital Tachometer          | Display range: 0~16,000 RPM ; Display unit: 100 RPM                         |
| ○Shift light (Red / Yellow)  | Display range: 0~16,000 RPM ; Display unit: 100 RPM                         |
| ○MAX RPM record              | Display range: 0~16,000 RPM   |
| ○Piston setting              | Setting range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6                              |
| ○The RPM input pulse         | Setting range: Hi (The positive wave pulse)<br>Lo (The negative wave pulse) |
| ●Thermometer                 | Display range: 0~250°C (32~399°F)   |
| ○Over heat warning light     | Setting range: 60~250°C (140~399°F)<br>Setting unit: 1°C (°F)               |
| ●Backlight color             | Blue  |
| ●Battery type                | 9V-12V  |
| ●Effective temperature range | -10~+60°C   |
| ●Meter standard              | JIS D 0203 S2   |
| ●Meter size (W X L X H)      | 135.7 X 100.7 X 52 mm   |
| ●Meter weight                | Around 240 g  |

Item number  
Backlight color Display range Panel color



Barcode  
Blue 0~16,000 RPM White

#### Option accessory



### GP style

## RX2NR+

If the RX1NR+ is still too small for you need please try the RX2NR+. With the 80 mm needle tachometer driven by the stepper motor with real time respond, and a temperature meter, it will be easier for you to check the engine situation during the race. With the settable shift light and max record function, you could get all the information you need for race.

Get the new RX2NR+ to monitor your engine, and enjoy the race.

There are more and more racer practice in the night, so we heard the demand of backlight from the customers. For this reason, we make a upgraded on the RX2NR+ to make the meter comes with the backlight. In this case, it will be easier for the customer to use the meter in the night.



## X-1 Boost Gauge

Today, many horsepower enthusiasts are upgrading their engine with Turbo or Supercharger. For this reason, we came up with this basic boost gauge with warning and peak functions. Made to resist cold temperature, water or dust, this gauge can be adapted to any engines with turbo or supercharger. The changeable scale from 15 to 30 psi, the warning and peak recall function makes it a great tool.



- Boost Pressure digital display Display range: 0~30 PSI, will blink to warn at overrange. Display unit: 0.5 PSI
- Boost Pressure scale Display range: 0~15 PSI ; Display unit: 0.5 PSI Display range: 0~30 PSI ; Display unit: 1 PSI
- Supply voltage AC/DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 99.6 X 42 X 22.5 mm
- Meter weight Around 85 g

Item number Backlight color Display range Panel color



Blue



- AFR Meter Display Range: 9.0-24.0, flashes when the current value exceed the set value.
- AFR Level Display Display Range: 9~21 Display Unit: 0.2
- Pressure Meter Display Range: ±0.0~30.0 PSI flashes when the current Display Range: ±0.0~30.0 PSI flashes when the current Display Unit: 0.5 PS
- Pressure Level Display Display Range: ± 0~15 PSI ; Display Unit: 0.5 PSI Display Range: ± 0~30 PSI ; Display Unit: 1 PSI
- Thermometer Display Range: 0.0~250°C (32.0~482.0°F) Display Unit: 0.1°C (°F)
- Temperature Warning Light Setting Range: 60.0~250.0°C (140.0~482.0°F) Display Unit: 0.1°C (°F)
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 100 X 60 X 20 mm
- Meter weight Around 200 g
- Indicators ARE (Green) Pressure (Red) Low AFR (Red) High AFR (Red) Temperature (Red)

Item number Backlight color Display range Panel color



White

## X-2 Boost Gauge

This new multi-function unit is a great tool for all horsepower enthusiasts that are upgrading their engine with Turbo or Supercharger. Following many requests, we came up with a unit that combines Boost, air fuel ratio and a temperature function who can be installed on the cooling system or the intercooler. This gauge is made to resist cold temperature, water or dust. It can be easily adapt to any engines with turbo or supercharger. The X-2 instrument will give you precious informations to help you pull out more horsepower out of the engine or save it from bad damages.



## POWER TEST

This speedometer has been designed for racing only. The power test meter can provide all the information needed for drag racing. The target distance function gives the maximum speed reach for a precise distance. It can also give the best time on the 0-100 km/h (0-60 mph) acceleration. Its 20-second memory will give you all the information needed after the tests. With this power test meter you will be finally ready for racing.



### Target distance timing

- Setting range: 50~1000 m (1/32~20/32 mile)
- Setting unit: 50 m (1/32 mile)
- Timing range: 0~ 9'59''99
- Record: 20 records

### Speed up timing

- Start speed setting range: 0~355 km/h (0~215 MPH)
- Stop speed setting range: 30~360 km/h (20~220 MPH)
- Setting unit: 5 km/h (MPH)
- **The minimum internal setting between starting speed and stop speed is 5 km/h (MPH)**
- Timing range: 0~ 9'59''99
- Record: 20 records



Speed up timing test

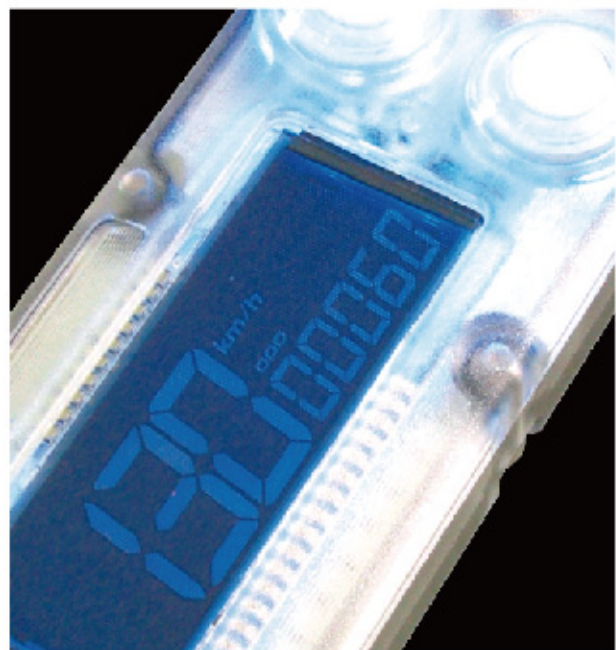


Target distance test



Top speed record

- Speedometer Display range: 0~360 km/h (0~223 MPH)  
Display unit: km/h & MPH for alternative
- Display internal <0.5 second
- Odometer Display range: 0~99999.9 km (mile), reset automatically after 99999.9 km (mile)  
Display unit: 0.1 km (mile)
- Trip meter A/B Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Top speed record Display range: 0~360 km/h (0~223 MPH)
- Tire circumference Setting range: 300~2,500 mm  
Setting unit: 1 mm • Pulse setting: 1~60
- Speed up timing Start speed setting range: 0~355 km/h (0~215 MPH)  
Stop speed setting range: 30~360 km/h (20~220 MPH)  
Setting unit: 5 km/h (MPH)  
**The minimum internal setting between starting speed and stop speed is 5 km/h (MPH)**  
Timing range: 0~ 9'59''99  
Record: 20 records
- Target distance timing Setting range: 50~1000 M (1/32~20/32 mile)  
Setting unit: 50 M (1/32 mile)  
Timing range: 0~ 9'59''99  
Record: 20 records
- Supply voltage 9V-1604, 6LR61 (No Backlight) / DC 12 V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 99.6 X 42 X 22.5 mm
- Meter weight Around 85 g



Item number  
Backlight color Display range Panel color



8 A G O 4 B D 1 \*  
Blue

### Option accessory

- 1 Disc magnet screw  
S16 M3 X 21.5  
S16 M3 X 22  
S16 M3 X 23  
S16 M3 X 24  
S16 M3 X 25  
S16 M3 X 26  
S16 M3 X 27  
S16 M3 X 28
- 2 Active speed sensor
- 3 L type speed sensor (cables)
- 4 Battery box kit (For using lead battery)
- 5 Meter bracket (For handle switch)
- 6 Meter bracket (For handle bar)



## DUAL EGT

This nice dual exhaust temperature gauge will give you precious informations on your engine. This gauge allows to tune more precisely the engine and to make sure nothing is wrong with the motor. The settable warning for each cylinder give the opportunity to set the maximum temperature to reach at up to 2100 °F. The color change and the blinking of the screen makes it very easy to see if something is going wrong with the engine. This tool could save your engine from bad damages !

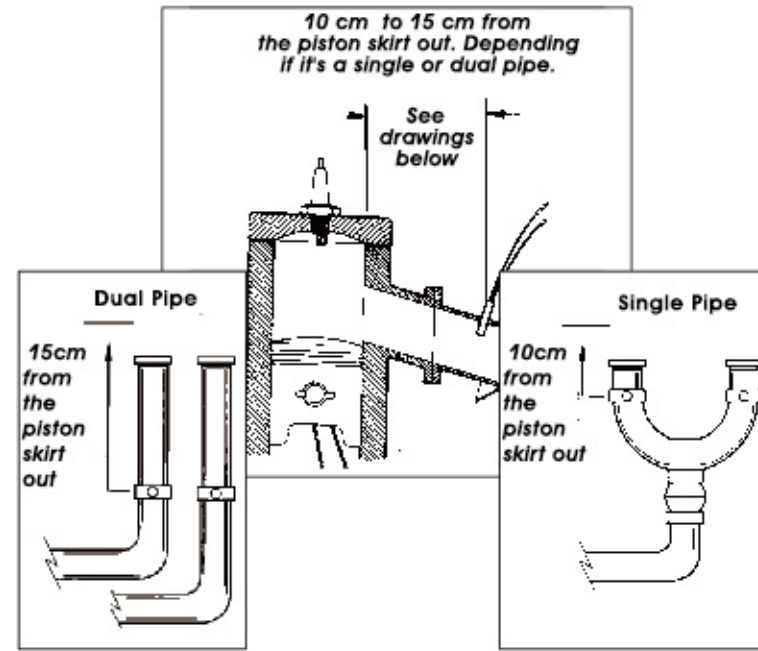


### Switch°C to °F

● In main screen, press down the **Select button** to switch °C to °F.



- Temperature A/B      Display range: 100~1,200°C (250~2,100°F)  
                                  Display unit: 1°C (°F)
- Temperature alarm    Setting range: 200~1,000°C (392~1,832°F)  
                                  Setting unit: 1°C (°F)
- Top temperature record    Display range: 100~1,200°C (250~2,100°F)  
                                  Display unit: 1°C (°F), °C & °F for alternative  
                                  <0.5 second
- Display internal
- Supply voltage        DC 12 V
- Effective temperature range    -10~+60°C
- Meter standard        JIS D 0203 S2
- Meter size (W X L X H)    124 X 58.5 X 22 mm
- Meter weight         Around 170 g



## INSTRUCTIONS

The temperature indicated on your gauge is the temperature at the tip of your exhaust sensor. This temperature is different for each sleds on the market. An engine should never be tune by exhaust temperature alone. The exhaust gas temperatures are a great tuning aid but they are not the final word. The normal temperature range for most sleds will range between 593°C and 676°C depending on the engine set up. The temperature indicated should always be correlated with the piston and plug color. Generally, probe location should be between 10 cm to 15 cm from the piston skirt out. Each sled and exhaust systems manufacturer have their own specifications for probe location and running temperature. To be more precise, these manufacturing companies should be contacted for all the details needed.



| Item number                                     | Item number                                     |
|---|---|
| Backlight color    Display range    Panel color | Backlight color    Display range    Panel color |



### Option accessory

- 1 EGT sensor (Rear)
- 2 EGT sensor bracket (40-60 mm / 65-80 mm)
- 3 Meter bracket (for handle bar)



## EGT

This nice backlit Exhaust temperature gauge will give you precious informations on your engine. It will allow you to tune more precisely your engine. Its warning could even save your engine from bad damages !



**Switch °C to °F**  
 ● In main screen, press down the **Select button** to switch °C to °F.



- Temperature Display range: 100~1,200°C (250~2,100°F)  
Display unit: 1°C (°F)
- Temperature alarm Setting range: 200~1,000°C (392~1,832°F)  
Setting unit: 1°C (°F)
- Top temperature record Display range: 100~1,200°C (250~2,100°F)  
Display unit: 1°C (°F), °C & °F for alternative <0.5 second
- Display Internal <0.5 second
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 99.6 X 42 X 22.5 mm
- Meter weight Around 85 g

| Item number | Backlight color | Display range | Panel color | Item number | Backlight color | Display range | Panel color |
|-------------|-----------------|---------------|-------------|-------------|-----------------|---------------|-------------|
|-------------|-----------------|---------------|-------------|-------------|-----------------|---------------|-------------|



### Option accessory

- 1 EGT sensor (Sport)
- 2 EGT sensor (Race)
- 3 EGT sensor bracket (40~60 mm, 60~80 mm)
- 4 Meter bracket (For handle bar)
- 5 Meter bracket (For handle safety)
- 6 Meter bracket (For handle bar)



- Air / fuel ratio meter Display range: 10.0 ~ 24.0
- Over lean setting LEAN 14.8~24.0
- Over rich setting RICH 14.6~10.0
- Display internal <0.5 second
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 99.6 X 42 X 22.5 mm
- Meter weight Around 85 g

| Item number | Backlight color | Display range | Panel color |
|-------------|-----------------|---------------|-------------|
|-------------|-----------------|---------------|-------------|



### Option accessory

- 1 Sensor adapter (For 2 stroke engine only)

## Wide Band A/F Ratio

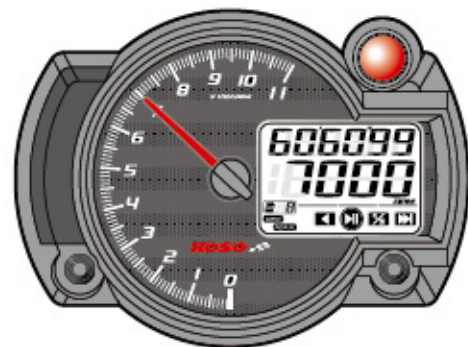
This nice backlit Wideband Air/Fuel Ratio Gauge will give you precious informations on your engine. It will allow you to tune more precisely your engine. Its warning could even save your engine from bad damages ! Its programmable warning will tell if your engine run too lean or too rich. Work on 2 and 4 stroke engines. Require 12V DC power.





## RX2NS

Our RX-2NS data logger is the perfect meter for drag and oval racers. Made from the best components and latest technology, it allows the user to playback his runs easily. The 390 minutes internal memory gives the opportunity to record up to 50 runs. Its heated screen will allow the user to play with it even under winter condition. The programmable shift light and piston setting makes it accessible to about any 2 or 4 strokes engine. This makes it a great tool to help find the right clutching or gear ratio.



- Tachometer Display range: 0~11,000 RPM ; Display unit: 100 RPM
- Digital Tachometer Display range: 0~11,000 RPM ; Display unit: 10 RPM
- Shift light Setting range: 100~11,000 RPM ; Setting unit: 100 RPM
- MAX RPM record Display range: 0~11,000 RPM
- Records Number of records: 50 sessions
- Recording Time Duration of recording: 99'59"99  
Total duration of recording: Approx. 6.30 Hours
- Play mode 1x play/pause. 1/3x play/pause  
3x play/pause. 1x rewind/pause
- Effective voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 135.7 X 100.7 X 52 mm
- Meter weight Around 240 g

Item number  
Backlight color Display range Panel color



White 0~11,000 RPM Black



- Digital air density in % Indicating range: 50~150%, will blink to warn at over-range  
Indicating unit: 1%
- Air density scale in % Indicating range: 70~130%  
Indicating unit: 1%
- Barometric pressure Indicating range: hPa: 500~1150 hPa  
MmHg: 375.0~862.5 mmHg  
inHg: 14.76~33.95 inHg  
Indicating range: hPa: 1 hPa  
mmHg: 0.5 mmHg  
inHg: 0.1 inHg
- Air temperature Indicating range: -20.0~80.0°C (-4.0~176.0°F), will blink to warn at over-range
- Battery remaining capacity Indicating range: 4 - stage indication  
Warning range: will blink to warn the battery power is LOW
- Battery cell CR 2032
- Unit body using temperature range -10~+60°C (14~+140°F)
- Unit body specification JIS D 0203 S2
- Unit body dimension 87.2 X 44.2 X 20.85 mm
- Unit body weight 82g approximately
- Warning Light Warning light will come "ON" if the air density goes 5% higher or lower than the reference point.

Item number  
Backlight color Display range Panel color



White

## Air Density Meter

This is a great tool for serious engine tuners. Our air density meter allows to see if the air density has changed. It could help you determine if the jetting or fuel mapping should be adjusted. Altitude, temperature and atmospheric pressure can affect quickly the performance of the engine. Our meter will instantly tell you if the condition has change so the proper changes can be made on the engine. This is a must for performance enthusiasts since it will help get the extra horsepower out of the engine or it could even save the engine from bad damages.



## Race

### GP style

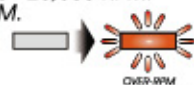
## EFI Multi Meter

Following customer request, we came up with this useful optional air/fuel ratio function. This instrument has a large graph bar and RPM digits, which makes it very easy to read, even at high speed. The adjustable scale for 10 000, 15 000 or 20 000 RPM allows this meter to adapt to almost any type of engine. Other than its RPM and 2 temperature readings, this meter also features voltage and clock functions. Its programmable shift light and temperature warning lights will help you monitor your engine and make it the perfect racing tool!



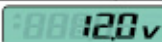
#### Shift light

- Setting range: 5,000~20,000 RPM.
- Setting unit: 100 RPM.



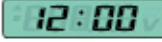
#### Volt meter

- Display range: DC 0~15.0 V.
- Display unit: DC 0.1V.



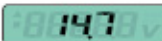
#### Clock

- 24H.



#### A/F ratio (Option)

- Displayed range: 12.1~16.8.
- Displayed unit: 0.1



Change



Change



Item number  
Backlight color Display range Panel color



White 0~20,000 RPM

#### Option accessory



|  |  |
|--|--|
| ● Digital Tachometer                                       | Display range: 0~20,000 RPM<br>Display unit: 100 RPM                                     |
| ● Level Tachometer   | Display range: OFF - 0~10,000 - 15,000 - 20,000 RPM                                      |
| ○ Display Internal   | <0.5 second  |
| ○ Shift light  | Setting range: 5,000~20,000 RPM<br>Setting unit: 100 RPM                                 |
| ○ MAX RPM record   | Display range: 0~20,000 RPM  |
| ○ Stroke / Piston  | Setting range: 2 Stroke: 1.2.3.4.6 pistons<br>4 Stroke: 1.2.4.6.8.10.12 pistons          |
| ● Thermometer  | Display unit: °C & °F for alternative  |
| ● Thermometer A/B  | Display range: 0~250 °C (32~482 °F)<br>Display unit: 0.1 °C (°F)                         |
| ○ Display Internal   | <0.5 second  |
| ○ Thermometer alarm  | Setting range: 60~250 °C (140~482 °F)<br>Setting unit: 1 °C (°F)                         |
| ○ MAX temperature record                                   | Display unit: 0~250 °C (32~248 °F)   |
| ○ Air/ Fuel ratio  | Display range: 12.1~16.8<br>Display unit: 0.1  |
| ○ Volt meter (Input power needed, can't work with CR 2032) | Display range: DC 8.0~18.0 V<br>Display unit: DC 0.1 V                                   |
| ● Clock  | 24 H   |
| ● Effective voltage  | CR 2032 (Lifetime around 2 years)  |
| ● External power   | DC 12 V  |
| ● Effective temperature range                              | -10~+60 °C   |
| ● Meter standard   | JIS D 0203 S2  |
| ● Meter size   | 87.5 X 42 X 20.8 mm  |
| ● Meter weight   | Around 72.4 g  |
| ● Indicator light color                                    | ● RPM shift light (Red)<br>● Temperature A alarm (Blue)<br>● Temperature B alarm (Green) |



## GPS Lap Timer

Following the popular demand, our crew of engineers have developed a high-tech GPS lap timer to accommodate professional and amateur riders. By using the GPS technology, this lap timer will allow you to get a precise and accurate reading without having to install different beacons around the track. This instrument records up to 200 laps, as well as: speed average speed and many other great functions. Last but not least, this lap timer can also be used as a simple GPS speedometer, due to the speed and odometer functions.

Our GPS lap timer also features a Power-Test function, which allows the user to record time/distance (ex: 1/8 mile, 1/4 mile...) or speed/time (ex: 0-60mph...) This is the perfect tool, whether you are a drag racer, enduro racer or circuit racer. You can finally race like a professional with this multifunctional tool that can be used under many different conditions such as closed and open circuits. Koso's GPS lap timer is simply a must have for all racers!



### Speedometer

- Display range: 0~360 km/h (0~255 MPH)
- Display range: 1 km/h (MPH)

### Riding time

- Record range: 0 ~ 9,999.9 H · reset automatically after 9,999.9 H
- Record unit: 0.1 H

### Top speed record

- Record range: 0~360 km/h (0~255 MPH)
- Record unit: 1 km/h (MPH)



Change



Item number  
Backlight color Display range Panel color



White 0~360 km/h

|  |   |
|--|---|
| ● Speedometer                                      | Display range: 0~360 km/h (0~255 MPH)<br>Display range: 1 km/h (MPH)  |
| ○ Odometer   | Display range: 0 ~ 99,999 km (mile) · reset automatically after 99,999 km (mile)<br>Display range: 1 km/h (MPH)   |
| ○ Trip meter                                       | Display range: 0 ~ 9,999.9 km (mile) · reset automatically after 9,999.9 km (mile) (delete average speed and run time records simultaneously) (delete average speed and run time records simultaneously)<br>Display range: 0.1 km/h (MPH) |
| ○ AVE Speed  | Record range: 0~360 km/h (0~255 MPH)<br>Record unit: 1 km/h (MPH)   |
| ○ Riding time                                      | Record range: 0 ~ 9,999.9 H · reset automatically after 9,999.9 H<br>Record unit: 0.1 H   |
| ○ Top speed record                                 | Record range: 0~360 km/h (0~255 MPH)<br>Record unit: 1 km/h (MPH)   |
| ● Geodetic coordinate system                       | WGS-84  |
| ○ Coordinate display method                        | Setting range: d°m's.s · d.d° · d°m.m   |
| ● Time zone  | Setting range: UTC-12:00 ~ +14:00   |
| ● Calendar   | Automatic Time Adjustment by GPS signal   |
| ● Clock  | Setting range: 12 · 24 H<br>Automatically set clock according to time zone selected.  |
| ● Voltage warning                                  | Battery symbol flashes when voltage is lower than the 7.0V  |
| ● Display contrast adjustment                      | Setting range: 1~16 level   |
| ● Backlight brightness adjust                      | Setting range: 0(Close) ~ 7(Brightest). The backlight brightness will change immediately after you set the value.   |
| ○ Single recording time                            | Record range: 00'00'00~99'59'99   |
| ○ Number of loop record                            | Record range: 1~200 Laps (Maximum)  |
| ○ Time difference compares to the best time record | Display range: 00'00~99'99  |
| ○ Time difference compares to last loop            | Display range: -99'99~+99'99  |
| ○ Record display method                            | Setting range: Sequentially · Best  |
| ○ Record displays retention time                   | Setting range: 5~20 second  |
| ● Target speed timer                               | Setting range: 30~360 km/h (20~255 MPH)<br>Setting unit: 5 km/h (MPH)   |
| ● Target distance timer                            | Setting range: 1/32~30/32 mile (50~1,500 M)<br>Setting unit: 1/32 mile (50 M)   |
| ● Closed track single loop time recording          | Setting range: 0'00'00~9'59'99  |
| ● Open track single loop time recording            | Setting range: 0'00'00~9'59'99  |
| ● Create track                                     | Setting range: close, open  |
| ○ Track width                                      | Setting range: 5~50 M<br>Setting unit: 1 M  |
| ○ Track length                                     | Auto-calculation after travel a loop  |
| ○ Checkpoint                                       | Checkpoint Setting range: 0~22points (Max.)   |
| ● Effective voltage                                | DC 12 V   |
| ● Effective temperature range                      | -10 ~ +60 °C  |
| ● Meter standard                                   | JIS D 0203 S2   |
| ● Meter size                                       | 107.7 X 61.7 X 20.5 mm  |
| ● Meter weight                                     | Around 132.2 g  |



## RPM Data Logger

Our digital ROM data logger is the perfect meter for drag and oval racers. It is built from the best components and latest technology, such as, an LCM screen. The internal memory lasts up to 76 minute and allows you to record up to 99 runs. Users can easily playback the data by choosing a Graph bar or Numeric display. Since it has programmable settings it is accessible to practically every 2 or 4 strokes engine. Equipped with a volt meter, adjustable backlight and adjustable resolution, this meter is the ideal tool to help set-up the right clutching or gear ratio.



Change



Change



|                                      |  |
|--------------------------------------|--|
| ●Tachometer                          | Display range : 0~20,000 RPM<br>Display unit : 10 RPM                        |
| ●The RPM input signal number setting | Setting unit : 0.5~4   |
| ●Logger function                     | Display range : 99 Data<br>Maximum recordable time : Around 76 minute        |
| ●Record display                      | Display range : 0~20,000 RPM   |
| ●Resolution                          | Setting range : 16 levels<br>Setting unit : 1(Dark)~16(Bright)               |
| ●Backlight                           | Setting range : 8 levels<br>Setting unit : 0(Extinction) 、 1(Dark)~7(Bright) |
| ●Volt                                | Display range : DC7~18V  |
| ●Effective temperature range         | -10~60°C   |
| ●Meter standard                      | JIS D 0203 S2  |
| ●Meter size                          | 107.7 X 61.7 X 20.5 mm   |
| ●Meter weight                        | Around 132.2g  |

Item number  
Backlight color Display range Panel color



\*BA045000\*  
White 0~20,000 RPM



|                              |   |
|------------------------------|---|
| ●Tachometer                  | Display range:0~20,000 RPM<br>Display unit:100 RPM  |
| ○Display internal            | <0.5 second   |
| ○Max. RPM record             | Display range:0~20,000 RPM<br>Display unit:1 RPM  |
| ○Total hour meter            | Display range:99,999 (HOUR),reset<br>automatically after 99 999 (HOUR)<br>Display unit:1 HOUR   |
| ○Hour meter A / B            | Display range:9999.9 (HOUR),reset<br>automatically after 9999.9 (HOUR)<br>Display unit:0.1 HOUR |
| ○RPM input pulse             | Setting range:0.5,1~6   |
| ○Warning                     | Setting range:5,000~20,000 RPM<br>Setting unit:100 RPM  |
| ●Thermometer                 | Display unit:°C & °F for alternative  |
| ○Thermometer                 | Display range:0~250°C (32~482°F)<br>Display unit 0.1°C (°F)                                     |
| ○MAX temperature record      | Display range 0~250°C (32~482°F)  |
| ○Thermometer alarm           | Setting range 60~250°C (140~482°F)<br>Setting unit 0.1°C (°F)                                   |
| ●Backlight brightness        | Setting range 1-5 (Darkest)~5-5 (Brightest)<br>Setting unit Each level represents 20%           |
| ●Effective voltage           | CR 2032 Lifetime around 10 mont   |
| ●Effective temperature range | -10~+60 °C  |
| ●Meter standard              | JIS D 0203 S2   |

Item number  
Backlight color Display range Panel color



\*BA054000\*  
White 0~360 km/h

## PRO-1

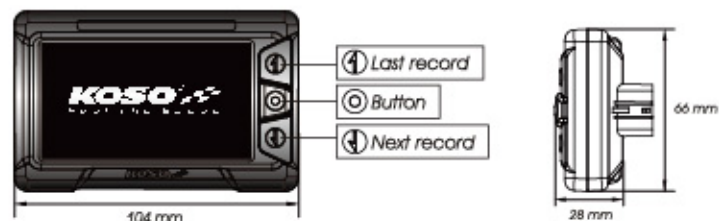
The small rev. counter is designed for the race, so we try to make it very small and work on the inner battery. There are tachometer, thermometer, the engine running hour, MAX record, and the RPM & temperature alarm functions including in the rev. counter, so you could get almost all the basic function you need for the race with it. If you want to use the meter on your bike every day, you could also connect the Backlight power to your battery and enable the Backlight function.



## Performance Logger

Excellent portable Dyno tool for all bike lover, to measure and understand your bike's performance any time and anywhere. New designed user interface to be easier to get your horse power reading in a minute, also switchable display method you could choose from either seeing digit or curve.

This new generation of gauge could allow you adjust the backlight brightness and the LCD contrast to make sure you can see the reading clearly in all circumstance, not to mention it come with multiple method of warning, shift light and warning range setup to secure your bike during the test. The gauge could save up to 49 testing curves data for you to check what is the best tuning condition of your bike!



- Speedometer      Display range : 0~360 km/h (0~223 MPH)  
Display unit : 1 km/h (MPH)  
(may shift between km and mph)
- Circumference      Setting range : 300~2500 mm  
Setting unit : 1 mm
- Sensing point      Setting range : 1~60 P  
Setting unit : 1P
- Tachometer      Display range : 0~20000 RPM  
Display unit : 100 RPM
- The RPM input signal number setting      Setting range : 0.5, 1.0
- Logger function      Display range : 50 Data  
Display record : Curves, figures
- Rider weight      Setting range : 40~150 kg  
Setting unit : 1 kg
- Motor weight      Setting range : 40~199 kg  
Setting unit : 1 kg
- Back light brightness      Setting range : 0(Extinction), 1(Dark) ~ 7(Bright)  
Setting unit : 1
- Resolution      Setting range : 1~15  
Setting unit : 1
- Indicator      Setting range : Full bright, quick flashing,  
slow flashing, off
- Operating temperature      -10~60°C
- Specification      JIS D 0203(S2)
- Meter Size      About 104 x 28 x 66 mm
- Meter Weight      Around 115 g

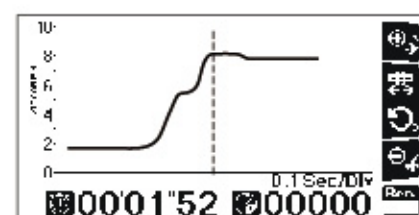
Item number  
Backlight color    Display range    Panel color



White    0~360 km    black



● Recording screen



● Curve-line screen

| No. | TIME    | M RPM  | M SPEED |
|-----|---------|--------|---------|
| 1   | 0'0"15  | 10520  | 166     |
| 2   | 0'34"02 | 112120 | 320     |
| 3   | 0'45"12 | 111820 | 180     |
| 4   | 0'0"152 | 3580   | 360     |
| 5   | 0'07"12 | 7180   | 220     |
| 6   | 0'16"43 | 15180  | 228     |
| 7   | 0'35"18 | 16060  | 326     |
| 8   | 0'38"43 | 18110  | 215     |

● Record menu screen



● Setup screen



○ Speeding Setting



○ RPM Setting



○ Power Testing Setting



○ Unit Setting



○ Weight Setting

## GEAR METER

Always wondering in which gear you're in? Avoid this question by using our gear indicator. Lightweight, compact, easy to use and to install, this meter will tell you quickly which gear you've selected. Its big digits and blue backlight makes it easy to read during day or night riding. This meter is a great addition for the serious riders.



- Gear meter      Display range: N, 1, 2, 3, 4, 5, 6, 7
- Supply voltage      DC 12 V
- Effective temperature range      -10~+60°C (14~140°F)
- Meter standard      JIS D 0203
- Meter size (W X L X H)      37 X 51 X 17mm
- Meter weight      Around 51.3 g



| Item number                | Item number                 | Item number                      |
|----------------------------|-----------------------------|----------------------------------|
| Backlight color            | Backlight color             | Backlight color                  |
| Display range              | Display range               | Display range                    |
| Panel color                | Panel color                 | Panel color                      |
|                            |                             |                                  |
| * K N D 0 2 0 0 0 *        | * K N D 0 2 0 0 1 *         | * K N D 0 2 0 1 0 *              |
| Blue    Universal    Black | Blue    MSX / GROM    Black | Blue    Harley davidson    Black |

Option accessory



- Gear meter      Display range: N, 1, 2, 3, 4, 5, 6, 7
- Supply voltage      DC 12V
- Effective temperature range      -10~+60°C
- Meter standard      JIS D 0203
- Meter size (W X L X H)      30 X 50 X 24mm
- Meter weight      Around 40 g

| Item number         |
|---------------------|
| Backlight color     |
| Display range       |
| Panel color         |
|                     |
| * K N D 0 0 K 1 0 * |
| White    Black      |

Option accessory



## GEAR METER

Many people ask us why KOSO doesn't make the gear indicator and now we are ready to introduce the new gear indicator.

The gear indicator works by checking the signal from speed and RPM, so it is quite easy to install and use. On the gear indicator, we already designed a shift light, so it could tell you the best time for changing the gear.

### Gear meter signal adapter

The gear meter signal adapter is designed to make the gear meter fit on the bike you can't get the digital signal. With the adapter, you could share the speed signal with other KOSO meter and then get the analog RPM signal and transfer it into digital signal to make the gear meter work. If you don't have the KOSO speedometer, you could just purchase the speed sensor and then get the digital speed signal from it, too.



# Race

## Mini style

### MINI 3 HEAD THERMOMETER

Need to monitor your engine temperature? Our Mini 3 meter is designed especially for Honda Grom which is the perfect addition for you. It's peak recall function will allow you to see the maximum temperature reach.



#### Max. temperature record

- Displayed range: t-1 - -20~200°C (-4~392°F)
- t-2 - -40~185°C (-40~365°F)
- t-3 - -20~220°C (-4~428°F)
- t-4 - -20~200°C (-4~392°F)
- t-5 - -20~120°C (-4~248°F)



- Temperature Display range: t-1 - -20~200°C (-4~392°F)
- t-2 - -40~185°C (-40~365°F)
- t-3 - -20~220°C (-4~428°F)
- t-4 - -20~200°C (-4~392°F)
- t-5 - -20~120°C (-4~248°F)

- Temperature type Display unit: t-1~t-5
- Effective voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 60 X 30 X 11.5 mm
- Meter weight Around 22g

Item number  
Backlight color Display range Panel color



\* R A 0 0 3 2 4 0 \* White KYMCO Black  
\* R A 0 0 3 2 4 1 \* White YAMAHA Black  
\* R A 0 0 3 2 4 3 \* White HONDA PCX Black



\* R A 0 0 3 2 4 4 \* White YAMAHA S-Max Black  
\* R A 0 0 3 2 4 5 \* White HONDA MSX (GROM) Black



#### Thermometer A. B

- 0~120°C (32~248°F)



- Thermometer A,B Display range : 0~120°C (32~248°F)
- Display unit : 0.1°C(°F)
- Effective voltage DC 12 V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 60 X 30 X 11.5 mm
- Meter weight Around 22 g

Item number  
Backlight color Display range Panel color



\* R A 0 0 3 1 8 0 \* White Black

#### Option accessory

- 1 Oil temp sensor adapter  
M12 X P1.5 / 4.5L  
M12 X P1.5 / 3.5L  
M12 X P1.5 / 4.5L  
M12 X P1.5 / 3.5L  
M12 X P1.5 / 4.5L
- 2 Water temp sensor adapter  
M14  
M16 M18  
M22 M26 mm
- 3 Cylinder head temp sensor  
M10  
M14 mm
- 4 Temp sensor  
M10 X P1.0  
M12 X P1.0  
M14 X P1.25  
M16 X P1.5  
M18 X P1.5

## Mini style

### MINI 3 DUAL TEMPERATURE

The Mini3 meter comes with 2 temperature function, so you could install the sensors at the place you want to check and get the temperature information easily. For example, you could install one sensor at the entrance and exit of the cooling system, and the you could know if the cooling system work properly. The dual temperature meter is the best tool for you to check the temperature.



## MINI 3 OIL PRESSURE

Our Mini Style oil pressure gauge is a must for all applications. Its reading can help you avoid major mechanical problems. If the pressure goes down, that can indicate a leak in the system or a malfunction of the engine. Also, if you ride your bike at a high RPM range, the pressure meter can help you understand if the oil lubricates the engine properly. Small, compact, lightweight and using a wider screen than similar sizes meter, this gauge is a perfect complement to your actual cluster!



LCD mark on the upper position represents the current unit is **PSI**



LCD mark on the lower position represents the current unit is **kgf/cm<sup>2</sup>**



- Oil pressure meter      Display range: 0.0~100.0PSI (0.0 ~ 7.0 kgf/cm<sup>2</sup>)  
Display unit: 0.1PS (kgf/cm<sup>2</sup>).
- Oil pressure warning      Warning Range: When pressure below the setting value (included), the LCD display will flash to warn.
- Effective voltage      DC 12V
- Effective temperature range      -10~+60°C
- Meter standard      JIS D 0203 S2
- Meter size (W X L X H)      60 X 30 X 11.5 mm
- Meter weight      Around 22g

Item number  
Backlight color    Display range    Panel color



Item number  
Backlight color    Display range    Panel color

Option accessory



## MINI 3 AMP & VOLT

The mini 3 series as been developed with the best components and latest technology. This compact and lightweight instrument will give you the vehicle voltage and amps used. This meter can be very helpful especially when there is many electrical accessories connected to the vehicle.



**Amp meter**  
● 0~±30 A  
16.8A

**Volt meter**  
● DC 6.0~19.9 V  
12.3

- Amp meter      Display range: 0~±30 A~248°F
- Volt meter      Display unit: 0.1 A
- Low Voltage warning      Display range: DC 6.0~19.9 V
- Voltage warning      Setting unit: 0.1 V
- Effective voltage      Setting range: DC 8.0~13.0 V
- Effective temperature range      Setting unit: 0.1 V
- Meter standard      When the voltage is below DC 11.5 V or over 15.5 V, the LCD display will flash to warn.
- Meter size (W X L X H)      DC 12V
- Meter weight      -10~+60°C
- Meter weight      JIS D 0203 S2
- Meter weight      60 X 30 X 11.5 mm
- Meter weight      Around 22 g

Item number  
Backlight color    Display range    Panel color



Item number  
Backlight color    Display range    Panel color

Option accessory





## MINI 3 AIR / FUEL RATIO

Our new Mini 3 air/fuel ratio gauge was especially designed to help you tune your carbureted or fuel injected engine. This meter can be easily installed on any type of 4 stroke engine by installing the sensor in the exhaust system and connecting the instrument to a 12 v DC source of power.



|   |   |
|---|---|
| <b>The A/F ratio is too rich</b><br>-R- | <b>The A/F ratio is too lean</b><br>-L- |
|---|---|

- A/F ratio                      Display range: 12.2~17.2  
    Setting unit : 0.1
- Effective voltage            DC 12V
- Effective temperature range    -10~+60°C
- Meter standard                JIS D 0203 S2
- Meter size (W X L X H)        60 X 30 X 11.5 mm
- Meter weight                    Around 22g

Item number  
Backlight color    Display range    Panel color



White                      Black

Option accessory

- 1 Signal Adapter wire (BMW)
- 2 Signal Adapter wire (SUZUKI & HONDA)
- 3 Signal Adapter wire (SUZUKI)
- 4 Signal Adapter wire (HONDA)
- 5 Oxygen sensor + Bung cap



## MINI 3 AMBIENT TEMPERATURE

The Mini3 meter comes with 2 temperature function, so you could install the sensors at the place you want to check and get the temperature information easily. For example, you could install one sensor at the entrance and exit of the cooling system, and then you could know if the cooling system work properly. The dual temperature meter is the best tool for you to check the temperature.



|   |
|---|
| <b>Thermometer</b><br>●0~120°C (32~248°F)<br>22.0C    73.0F |
|---|

- Thermometer                      Display range : -22~248 °F (-30~120 °C)  
    Display unit : 0.1°F ( °C)
- Effective voltage                DC 12 V
- Effective temperature range    -4~+140 °F (-20~60 °C)
- Meter standard                JIS D 0203 S2
- Meter size (W X L X H)        60 X 30 X 11.5 mm
- Meter weight                    Around 22 g

Item number  
Backlight color    Display range    Panel color



White                      Black

Option accessory



## Race

### Mini style

# MINI 3 CLOCK & VOLT

The mini 3 series as been developed with the best components and latest technology. This compact and lightweight instrument features a clock and also the vehicle voltage. This meter can be very helpful especially when there is many electrical accessories connected to the vehicle.



|                               |   |
|-------------------------------|---|
| <b>Clock</b><br>●24H<br>12:00 | <b>Volt meter</b><br>●DC 6.0~19.9 V<br>12.5 |
|-------------------------------|---|

|                              |  |
|------------------------------|--|
| ●A/F ratio                   | Display range: 12.2~17.2<br>Setting unit : 0.1 |
| ●Effective voltage           | DC 12V   |
| ●Effective temperature range | -10~+60°C                                      |
| ●Meter standard              | JIS D 0203 S2                                  |
| ●Meter size (W X L X H)      | 60 X 30 X 11.5 mm                              |
| ●Meter weight                | Around 22g                                     |

Item number  
Backlight color: Display range: Panel color



\*BA003161\*  
White Black

Option accessory



### Mini style

# MINI 3 CLOCK METER

The all new MINI3 Clock meter could provide you the easier way to get the most watched information when you are riding! The meter is so compact that you could place in any place of your bike with easy connection. You don't need to take your hands off the grip to take a look of your watch and leave your sight from the road anymore, with a glance you will know the time for now!



|                               |
|-------------------------------|
| <b>Clock</b><br>●24H<br>12:00 |
|-------------------------------|

|                              |  |
|------------------------------|--|
| ●Thermometer                 | Display range : -22~248 °F (-30~120 °C)<br>Display unit : 0.1°F (°C) |
| ●Effective voltage           | DC 12 V  |
| ●Effective temperature range | -4~+140 °F (-20~60 °C)   |
| ●Meter standard              | JIS D 0203 S2  |
| ●Meter size (W X L X H)      | 60 X 30 X 11.5 mm  |
| ●Meter weight                | Around 22 g  |

Item number  
Backlight color: Display range: Panel color



\*BA003150\*  
White Black

Option accessory



## Race

### Mini style

# MINI 3 FUEL METER

Changed your cluster and need to monitor your fuel level? Our Mini 3 fuel meter will give you that precious information. Compact, lightweight and easy to connect to your OEM fuel sensor; the Mini 3 fuel meter is a must have!



#### Fuel setting range

- 100Ω, 180Ω, 250Ω, 270Ω, 510Ω, 700Ω, 1200Ω



- Fuel level Display range: 10 levels (0~100%)
- Digital Fuel Display range: 0~100%  
Display unit: 1%  
Setting range: 100Ω, 180Ω, 250Ω, 270Ω, 510Ω, 700Ω, 1200Ω, USER
- Fuel warning Setting range: 0~25%  
Setting unit: 1%
- Effective voltage DC 12V
- Effective temperature -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (W X L X H) 60 X 30 X 11.5 mm
- Meter weight Around 22g

Item number  
Backlight color, Display range, Panel color



Item number  
Backlight color, Display range, Panel color

Option accessory



- Temperature Display range: -4.0~302.0°F, Display unit: 0.1°F
- Temperature warning Setting range: 140~302°F, Setting unit: 1°F
- Volt meter Display range: 8.0v~18.0v, Display unit: 0.1v
- Effective voltage DC 12V
- Effective temperature range -10~60 °C
- Water-Proof Standard JIS D 0203
- Meter size W69.8 X L34.4 X H17.2 mm
- Meter weight About 47.5 g

Item number  
Backlight color, Display range, Panel color



Item number  
Backlight color, Display range, Panel color

Option accessory

### Mini style

# MINI 4 INFRARED TEMPERATURE

The mini4 meter comes infrared temperature, so you could install the sensors at the place you want to check and get the temperature information easily. Its small and compact size makes it very easy to install at almost any location on the bike.



## Race

### Mini style

## MINI 4 ENGINE HOUR

How do you know the time to replace the parts or change the oil for your dirt bike or sport ATV when they come without the speedometer? Most of the people do it by feeling or experience before, but now you don't need to guess any more. KOSO provide you the new tool for doing this job for you, so you don't need to keep it on Your mind all the time. All you need to do is to check the hour meter.



084 / 085



#### Hour meter A/B

- Display range: 0.0~999.9 H
- Display unit: 0.1 H



|                               |  |
|-------------------------------|--|
| ● Total hour meter            | Display range: 0~99999 ; Display unit: 1 H       |
| ● Hour meter A/B              | Display range: 0.0~999.9 H ; Display unit: 0.1 H |
| ● Effective voltage           | DC 12V   |
| ● Battery type                | CR 2032  |
| ● Battery life time           | About 350 H (when battery volume below 250 mAh)  |
| ● Effective temperature range | -10~+60°C  |
| ● Meter standard              | JIS D 0203                                       |
| ● Meter size (W X L X H)      | 69.8 X 34.4 X 17.2 mm                            |
| ● Meter weight                | Around 47.6g                                     |

Item number  
Backlight color Display range Panel color



Item number  
Backlight color Display range Panel color

Option accessory



#### Thermometer A. B

- -25°C~250°C (-13°F~482°F)

#### MAX Temp. record



|                               |   |
|-------------------------------|---|
| ● Thermometer A, B            | Display range: -25°C~250°C (-13°F~482°F)<br>Display unit: 0.1°C (°F)  |
| ○ Temperature Warning         | Range: Settable temperature warning range. Display will flash when the temperature is higher than (or equals to) the setting value. |
| ● Battery type                | CR 2032   |
| ● Battery life time           | About 230 H (when battery volume below 250 mAh)   |
| ● Effective temperature range | -10~+60°C   |
| ● Meter standard              | JIS D 0203  |
| ● Meter size                  | W69.8 X L34.4 X H17.2 mm  |
| ● Meter weight                | Around 47.6g  |

Item number  
Backlight color Display range Panel color



Item number  
Backlight color Display range Panel color

Option accessory

### Mini style

## MINI 4 DUAL TEMPERATURE

Have you ever feel lost and have no clue when and why your bike get overheat engine all the time? This special protable dual temperature compact meter will easily solve your problem by just install it on your bike, also the meter allows to use inner battery to work so you don't need to connect the power supply or makes it more easily to switch the meter between different bike. The KOSO Mini 4 Dual Temperature meter allows you to know your coolant temperature by install the 2 sensors at 2 different position of your cooling system - IN/OUT then you will easier know if your cooling system is working properly or not by visual observation.



Race 2020

## Race

### Mini style

## MINI 4 A/F RATIO METER

Have you ever find it difficult to understand the A/F ratio from your bikes? Especially when you have more than 2 bikes and lack of instrument to observe the information you want? This all new protable KOSO Mini 4 A/F ratio will be your final solution! With inner battery to allow you don't have to connect the power supply of the bike so makes it more easier to switch from one bike to another. Of course, you also can connect the power supply and leave it on one bike because the size of the meter is so compact and you could place it in any where you like and easily to get the A/F information you want in anytime when you ride.



The A/F ratio is too rich

-R-

The A/F ratio is too lean

-L-

|                              |   |
|------------------------------|---|
| ●A/F ratio                   | Display range: 12.2~17.2<br>Setting unit : 0.1  |
| ●Effective voltage           | DC 12V  |
| ●Battery type                | CR 2032   |
| ●Battery life time           | About 450 H (when battery volume below 250 mAh) |
| ●Effective temperature range | -10~+60°C                                       |
| ●Meter standard              | JIS D 0203                                      |
| ●Meter size (W X L X H)      | 69.8 X 34.4 X 17.2 mm                           |
| ●Meter weight                | Around 47.6g                                    |

Item number  
Backlight color Display range Panel color



Item number  
Backlight color Display range Panel color

Option accessory



MAX RPM record

- Display range: 0~15,000 RPM
- Display unit: 10 RPM



|                              |   |
|------------------------------|---|
| ●Digital Tachometer          | Display range: 0~15,000 RPM<br>Display unit: 10 RPM |
| ○Display internal            | <0.5 second   |
| ○RPM input pulse             | Display range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6      |
| ●Effective voltage           | DC 12V  |
| ●Battery type                | CR 2032   |
| ●Battery life time           | About 350 H (when battery volume below 250 mAh)     |
| ●Effective temperature range | -10~+60°C   |
| ●Meter standard              | JIS D 0203  |
| ●Meter size (W X L X H)      | 69.8 X 34.4 X 17.2 mm                               |
| ●Meter weight                | Around 47.6g  |

Item number  
Backlight color Display range Panel color



Item number  
Backlight color Display range Panel color

Option accessory

### Mini style

## MINI 4 RPM METER

The style and new design of mini-series meter. Always show the live engine rpm. The white back light could bring you excellent vision in the night. The meter could work by the small battery inside(CR2032). Perfect for the motocross or the bikes without battery.



## Race

### Mini style

## MINI 4 RPM & HOUR METER

The new Mini4 meter comes with the new shape design makes the meter look more stylish. Except the shape design, the new meter comes with the new battery socket design to upgrade the anti-vibration level and the new structure allows you to choose to use the Velcro to stick the meter on your bike or using the screw to fix the meter. The meter works with the inner CR2032 battery, so you could use the meter on the off road bikes or ATV which come without the battery. With the engine hour function, it will be very easy for you understand how long the engine already run and when you need to do the maintain. The best tool to monitor the engine!



088 / 089



#### MAX RPM record

- Display range: 0~15,000 RPM
- Display unit: 10 RPM



|                               |   |
|-------------------------------|---|
| ● Digital Tachometer          | Display range: 0~15,000 RPM<br>Display unit: 10 RPM |
| ○ Display interval            | <0.5 second   |
| ○ RPM input pulse             | Display range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6      |
| ● Total hour meter            | Display range: 0~99999 ; Display unit: 1 H          |
| ● Hour meter A/B              | Display range: 0.0~999.9 H ; Display unit: 0.1H     |
| ● Effective voltage           | DC 12V  |
| ● Battery type                | CR 2032   |
| ● Battery life time           | About 350 H (when battery volume below 250 mAh)     |
| ● Effective temperature range | -10~+60°C   |
| ● Meter standard              | JIS D 0203  |
| ● Meter size (W X L X H)      | 69.8 X 34.4 X 17.2 mm                               |
| ● Meter weight                | Around 47.6g  |

Item number  
Backlight color Display range Panel color



Item number  
Backlight color Display range Panel color

Option accessory



#### Volt meter

- Display range : DC 8.0~18.0 V
- Display unit : 0.1 V

#### Voltage warning

- When the voltage is lower than 11.5V, the meter will flash to warn you.



|                               |   |
|-------------------------------|---|
| ● Volt meter                  | Display range : DC 8.0~18.0 V<br>Display unit : 0.1 V                   |
| ○ Voltage warning             | When the voltage is lower than 11.5V, the meter will flash to warn you. |
| ● Effective voltage           | DC 12V  |
| ● Effective temperature range | -10~+60°C   |
| ● Meter standard              | JIS D 0203 S2   |
| ● Meter size                  | 56.4 X 27 X 11 mm   |
| ● Meter weight                | Around 20 g   |

Item number  
Backlight color Display range Panel color



Blue



Red

Option accessory

### Super slim style

## VOLTAGE

Our super slim series is probably one of our best seller. Its small and compact size makes it very easy to install at almost any location on the bike. The blue illuminated digits make the meter very attractive and easy to read at night. Our super slim volt meter is equipped with a warning function to help you monitor the voltage. The meter will automatically flash if the voltage goes below than 11.5 volts.



Race Mini style

RPM & HOUR METER / VOLT

Race 2020

## Race

Super slim style

### THERMOMETER

Our super slim series is probably one of our best seller. Its small and compact size makes it very easy to install at almost any location on the bike. The blue illuminated digits make the meter very attractive and easy to read at night. Our super slim temperature meter is equipped with a warning function to help you monitor the engine temperature. The meter will automatically flash if the temperature goes higher than 120°C.



#### Thermometer

- Display range : 0~120°C
- Display unit : 1°C

#### Temperature Warning

- When the temperature is over 120°C., the meter will flash to warn you.



- Thermometer Display range : 0~120°C (32~248°F)  
Display unit : 1°C (°F)
- Temperature Warning When the temperature is over 120°C (248°F), the meter will flash to warn you.
- Effective voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size 56.4 X 27 X 11 mm
- Meter weight Around 22 g

Item number  
Backlight color Display range Panel color



\* B A 0 2 4 B 1 0 \*  
Blue 0~120°C Black



\* B A 0 2 4 B 1 1 \*  
Blue 32~248°F Black



\* B A 0 2 4 R 1 0 \*  
Red 0~120°C Black



\* B A 0 2 4 R 1 1 \*  
Red 32~248°F Black

Option accessory



090 / 091



- Clock
- 24H



- Clock 24H
- Effective voltage DC 12V
- Effective temperature range -10~+60°C (14~140°F)
- Meter standard JIS D 0203 S2
- Meter size 56.4 X 27 X 11 mm
- Meter weight Around 22 g

Item number  
Backlight color Display range Panel color



\* B A 0 2 4 B 2 0 \*  
Blue Black

Option accessory

Super slim style

### CLOCK

We now provide with only clock in our super slim meter line up. You don't want to wear the watch when you are on the racetrack, but you still want to know the time exactly? Try this and you won't be disappointed.



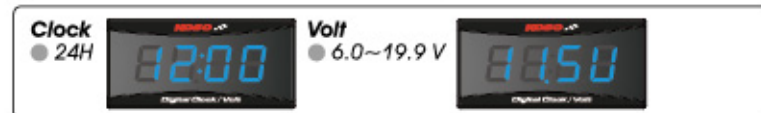
Race 2020

## Race

### Super slim style

## CLOCK & VOLTAGE

Our super slim series is probably one of our best seller. Its small and compact size makes it very easy to install at almost any location on the bike. The blue illuminated digits make the meter very attractive and easy to read at night. Our super slim clock & volt meter is a convenient tool. Simply press the button to switch between the 2 functions. Our super slim volt meter & clock is equipped with a warning function to help you monitor the voltage. The meter will automatically flash if the volta.



|                                    |  |
|------------------------------------|--|
| ●Clock                             | 24H  |
| ●Volt meter                        | Display range: 6.0~19.9 V ; Display unit: 0.1 V                              |
| ○Volt warning setting              | Setting range: 8.0~16.0 V ; Setting unit: 0.1 V<br>ON-turn on ; OFF-turn off |
| ○Default value for voltage warning | High voltage warning: 14.0 V<br>Low voltage warning: 11.0 V                  |
| ●Effective voltage                 | DC 12V   |
| ●Effective temperature range       | -10~+60°C (14~140°F)   |
| ●Meter standard                    | JIS D 0203 S2  |
| ●Meter size                        | 56.4 X 27 X 11 mm  |
| ●Meter weight                      | Around 22 g  |

Item number  
Backlight color Display range Panel color



\* B A 0 2 4 8 5 0 \*  
Blue 24H / 6~19.9 V Black

Option accessory



## NEW !



|                           |   |
|---------------------------|---|
| ●Temp Meter               | Display range :<br>0 ~ 150.0 °C (32.0 ~ 302.0 °F)<br>Display unit : 0.1°C ~ 0.1°F |
| ○MAX Temp Record          | Display range :<br>0 ~ 150.0 °C (32.0 ~ 302.0 °F)<br>Display unit : 0.1°C ~ 0.1°F |
| ○Temp unit Setting        | Setting unit : °C ~ °F<br>Preset: °C  |
| ○Temp warning             | Setting range: 1°C ~ 1°F<br>Setting unit: 1°C ~ 1°F<br>Preset: 100°C              |
| ●Volt Meter               | Display range : 8V ~ 18 V<br>Display unit : 0.1 V                                 |
| ○Low volt warning Setting | Setting range : 8.0~18.0V<br>Preset: 11.5V  |
| ●backlight color          | Blue Red Green  |
| ●Effective temp range     | -10 °C ~ +60 °C   |
| ●Effective voltage        | DC 8v~16v   |
| ●Meter size               | About 57 x 29 x 8.7 mm  |

Item number  
Backlight color Display range Panel color



\* B A 0 6 8 0 4 0 \*  
Blue Black



\* B A 0 6 8 0 4 1 \*  
Red Black



\* B A 0 6 8 0 4 2 \*  
Green Black

### Super slim style-Touch

## TEMPERATURE & VOLTAGE

New generation of Super Slim LED Meter, with amazing touchscreen feature to allow you switch different reading display by simply touch the screen corner! It comes with indication to tell you if the touchscreen function is activated, not to mention the auto lock feature to prevent any accidental touch. Another benefit for the touchscreen feature is to do as button but without extra button! So your favorite Super Slim LED Meter now is upgraded to a whole new level, which can set the warning for low voltage and high temperature. Slim thickness could let you stick on anywhere of the bike wherever easy to read for the rider; now, except original blue and red, it also comes with green color display!





## Race

### i-GEAR style

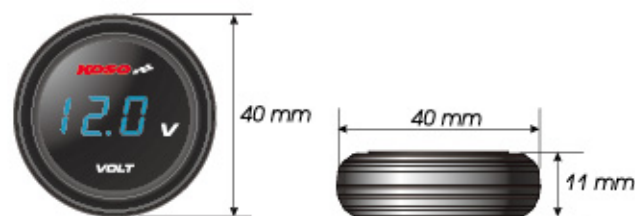
#### i-GEAR VOLT METER

The small and compact size of the i-Gear meters makes it very easy to install at almost any location on the bike. The blue or red illuminated digits make these meters very attractive and easy to read at night. Different models are available: temperature meters, and volt meter. They are equipped with a warning function to help you monitor the information.



094 / 095

NEW!



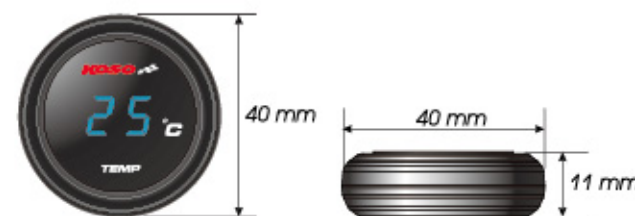
- Meter Display range : DC 7.0 ~ 19.9 V  
Display unit : 0.1 V
- Voltage warning When the voltage is lower than 12 V, the meter will flash to warn you.
- Effective voltage DC 12 V
- Effective temperature range -10 ~ +60°C
- Meter standard JIS D 0203 S2
- Meter size Ø40 x 11 mm
- Meter weight Around 24 g

Item number  
Backlight color Display range Case

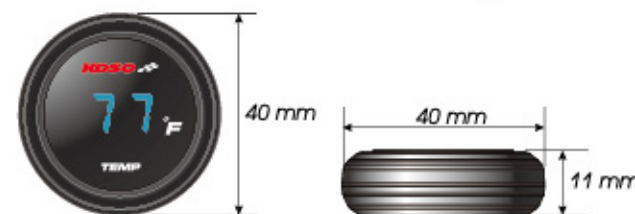


Blue DC7.0~19.9V Black Red DC7.0~19.9V Black

NEW!



- Meter Display range : 0 ~ 120 °C  
Display unit : 1 °C
- Temp. warning When the temperature is over 120 °C, the meter will flash to warn you.
- Effective voltage DC 12 V
- Effective temperature range -10 ~ +60 °C
- Meter standard JIS D 0203 S2
- Meter size Ø 40 x 11 mm
- Meter weight Around 30 g



- Meter Display range : 32 ~ 248 °F  
Display unit : 1 °F
- Temp. warning When the temperature is over 248 °F, the meter will flash to warn you.

Item number  
Backlight color Display range Case



Blue 0~120 °C Black Red 0~120 °C Black  
Blue 32~248 °F Black Red 32~248 °F Black

### i-GEAR style

#### i-GEAR TEMPERATURE METER

The small and compact size of the i-Gear meters makes it very easy to install at almost any location on the bike. The blue or red illuminated digits make these meters very attractive and easy to read at night. Different models are available: temperature meters, and volt meter. They are equipped with a warning function to help you monitor the information.



Race 2020

# Classic

GP style

E-mark approval

## TNT D64

Our TNT D64 multifunction speedometer is the perfect meter for all the street bike, classic bike and cafe racer with more standard 64mm diameter size. It uses a stepper motor for a fast and smooth response. The instrument features many functions such as, speed, odometer, trip meter, fuel meter, clock, voltage, shift light, indicator light and more... This meter is available in black or white face for you to make your own choice!



- Speedometer Display range : 0 ~ 360 km (0 ~ 225 mile)  
Display unit : km/h & MPH or alternative
- Odometer Display range : 0~99999 km (mile), reset automatically after 99999 km (mile)
- Trip meter A , B Display range : 0~9999.9 km (mile), reset automatically after 0~9999.9 km (mile)
- Top speed record Display range : 0~360 km/h (0~225 MPH)
- Tire circumference Display range : 20,000 RPM
- The shift light Setting range : 5000~20000 RPM
- Warning RPM input pulse F-OFF (LIGHT ON) • F-ON (FLASH)  
Display range : 0.5, 1~6
- The RPM input pulse Setting range : HI-ACT (Positive wave pulse)  
Lo-ACT (Negative wave pulse)
- Max. RPM record Display range : 0~20,000 RPM
- Fuel meter Display range : 0~100%
- Insufficient fuel warning Setting unit : 100 Ω , 250 Ω , 510 Ω , USER
- Clock 24 H
- Backlight brightness Setting range: 1-5 (Darkest)~5-5 (Brightest)
- Effective voltage DC 12V
- Effective temperature range -10 ~ +60 °C
- Meter standard JIS D 0203 S2
- Meter size 85.5 X 54.5 mm
- Meter weight Around 330 g
- Telltales High beam (Blue) ED  
Neutral (Green) N  
Reserve (RED) Δ  
Repeater (Green) ↔  
RPM Shift light (RED) ●

Item number Backlight color Display range Casing



white 0~360 km/h Black



- Speedometer Display range : 0 ~ 360 km (0 ~ 225 mile) switchable
- Speedometer unit Display range : km ~ mile
- Over speed warning Setting range : 30 ~ 360 km (19 ~ 225 mile), warning sign will be given once exceed (include) setting value.
- Tire circumference Display range : 300 ~ 2,500 mm
- Internal and external odometer Display range : 0 ~ 999,999 km (mile) return to zero upon exceed
- Trip meter A , B Display range : 0 ~ 9,999.9 km (mile) returns to zero upon exceed
- Gear meter Display range : off, highest gear, N and highest gear, show all (N / 1 ~ 6)
- Tachometer Display range : 0 ~ 10,000 RPM
- RPM signal Display range : P-0.5 ~ P-1 ~ P-24
- The RPM input pulse Display range : Hiact ~ Loact
- Thermometer Display range : 0 ~ 250 °C (32 ~ 482 °F)
- RPM shift light \ Warning 1 \ Warning 2
- Fuel meter 100Ω \ 250Ω \ 270Ω \ 510Ω \ 1200Ω \ fuel switch \ USER
- Clock Setting range : 12 / 24 hour format
- Voltmeter Display range : 8 ~ 18 V
- Under voltage Setting range : 8.0 ~ 18.0 V, warning sign will be given once below (include) setting value.
- Backlight brightness Setting range : 1 / 5 (darkest) ~ 5 / 5 (brightest)
- Backlight color Setting range : red, orange, yellow, green, blue, light blue, purple, white
- Maintenance millage Setting range : OFF, 500 ~ 16,000 km
- Operating voltage DC 8V to DC 16V
- Temperature range -10 ~ +60 °C
- Specifications JIS D 0203 (S2)
- Meter Size / Meter Weight D94.7 X 55.8 mm / 165 g
- Indication light RPM shift light ● Trun signal ↔  
Warning 1 → High beam light ED  
Warning 2 → Engine warning light ●  
Neutral N

Item number Backlight color Display range Casing



8 color 0~360 km/h Chrome 8 color 0~360 km/h Chrome 8 color 0~360 km/h Black 8 color 0~360 km/h Black

GP style

E-mark approval

## TNT-04

The whole new TNT-04 meter is perfect instrument for Classic application or special Cafe Racer project. It combine with both needle tach and digital speed display to present your special taste of bike. The meter is fully equipped with all functions you need such as tachometer, speedometer, odometer, trip meter, shift light, fuel level, indicator lights, gear indicator and also the multiple warning reserved light you could make your own selection. Furthermore, this TNT-04 offer you 7 different colors for backlight to ride with your own style!



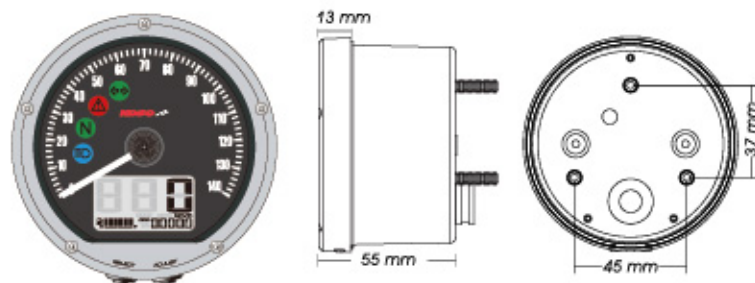
## Classic

GP style

E-mark approval

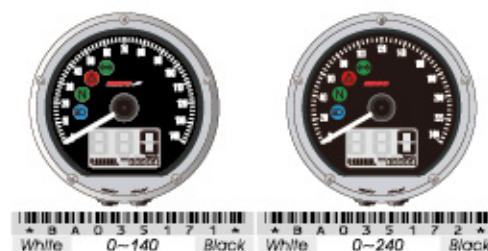
### TNT-01S SPEEDOMETER

Our TNT multi-functions speedometer is the perfect meter for all the Café racers and special projects. The TNT meter use a stepper motor for a fast and smooth response. The instrument features many functions such as, speed, odometer, trip meter, fuel gauge, clock, voltage, shift light, indicator light and more. This meter is available in black or white face and includes the installation brackets and speed sensor.

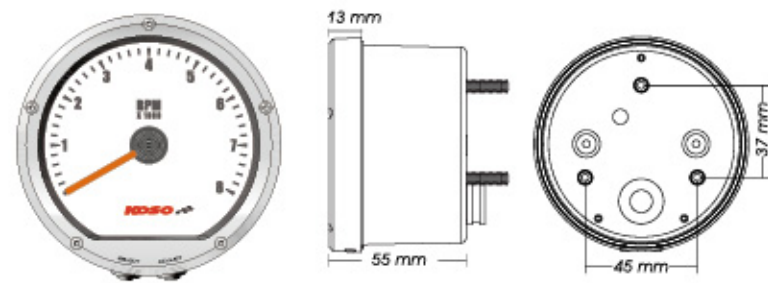


|                               |  |
|-------------------------------|--|
| ● Speedometer                 | Display range: 0-360 km/h (0-225 MPH)<br>Display unit: km/h & MPH or alternative   |
| ○ Odometer                    | Display range: 0-99999 km (mile), reset automatically after 99999 km (mile)  |
| ○ Trip meter A, B             | Display unit: 1 km (mile)<br>Display range: 0-9999.9 km (mile), reset automatically after 0-9999.9 km (mile)   |
| ○ Top speed record            | Display unit: 0.1 km (mile)<br>Display range: 0-360 km/h (0-225 MPH)   |
| ○ Tire circumference          | Setting range: 300-2,500 mm<br>Sensor point: 1-20 Setting unit: 1  |
| ● Clock                       | 24 H   |
| ● Backlight brightness        | Setting range: 1-5 (Darkest)-5-5 (Brightest)<br>Setting unit: Each level represents 20%  |
| ● Effective voltage           | DC 12v   |
| ● Effective temperature range | -10~+60 °C   |
| ● Meter standard              | JIS D 0203 S2  |
| ● Meter size                  | 85.5 X 54.5 mm   |
| ● Meter weight                | Around 330 g   |
| ● Telltales                   | High beam (Blue) <span style="color:blue">HD</span><br>Neutral (Green) <span style="color:green">N</span><br>Warning Light (RED) <span style="color:red">△</span><br>Repeater (Green) <span style="color:green">◇</span> |

Item number  
Backlight color Display range Casing

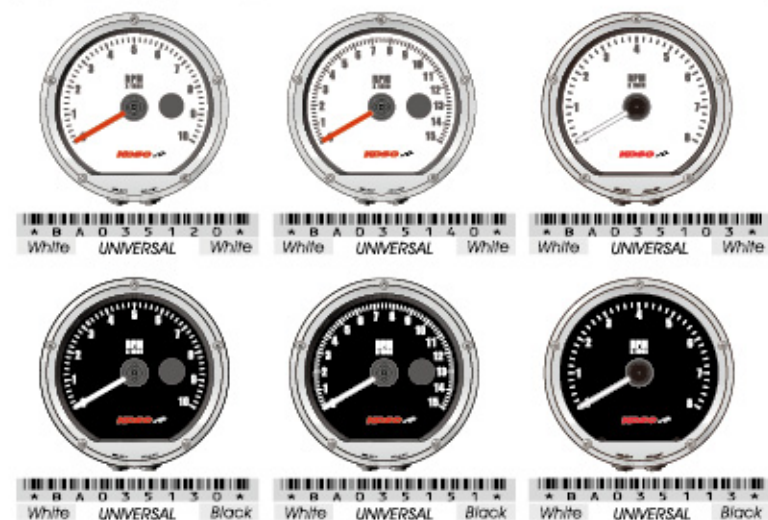


White 0-140 Black White 0-240 Black



|                                       |   |
|---------------------------------------|---|
| ● Tachometer                          | Display range: 0-10,000 RPM   |
| ○ Display internal                    | <0.5 second   |
| ● The RPM input signal number setting | Setting range: 0.5, 1-6   |
| ● The RPM input pulse                 | Setting unit: Hi (Positive wave pulse)<br>Lo (Negative wave pulse)                        |
| ● Backlight brightness                | Setting range:<br>6 different levels available<br>Setting unit: Each level represents 20% |
| ● Supply voltage                      | DC 12V  |
| ● Effective temperature range         | -10~+60°C   |
| ● Meter standard                      | JIS D 0203 S2   |
| ● Meter size (D X H)                  | D86 X 55 mm   |
| ● Meter weight                        | Around 330g   |

Item number  
Backlight color Display range Casing



White UNIVERSAL White White UNIVERSAL White White UNIVERSAL White White UNIVERSAL Black White UNIVERSAL Black White UNIVERSAL Black

GP style

E-mark approval

### TNT-01R TACHOMETER

Built with the best components and strongest stepper motor on the market, this TNT tachometer is the perfect addition for all motorcycles. Its large dial face and backlight make it easy to read all day long. Available in black dial face with black casing and white dial face with chrome casing.



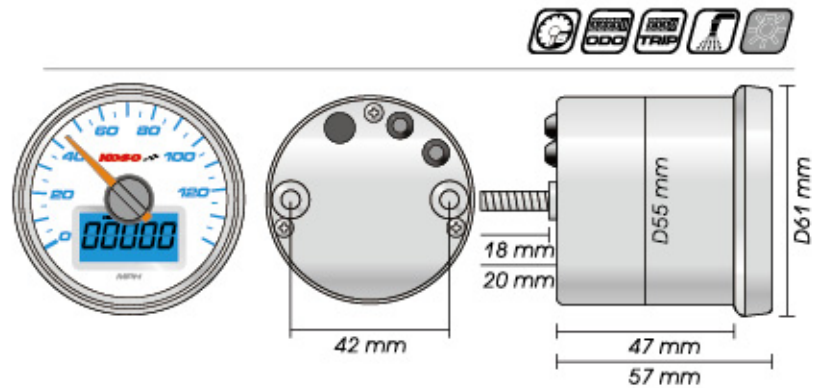
## Classic

GP style

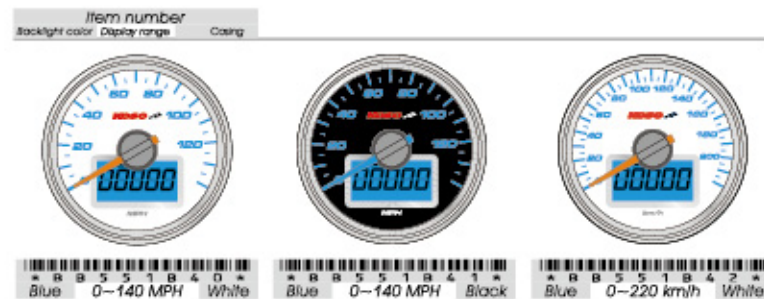
E-mark approval

### HD-01S SPEEDOMETER

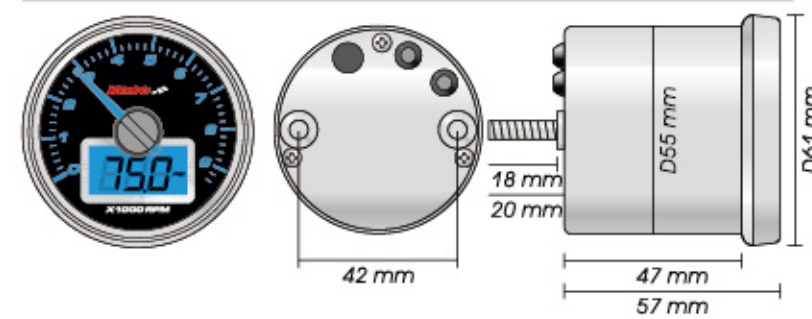
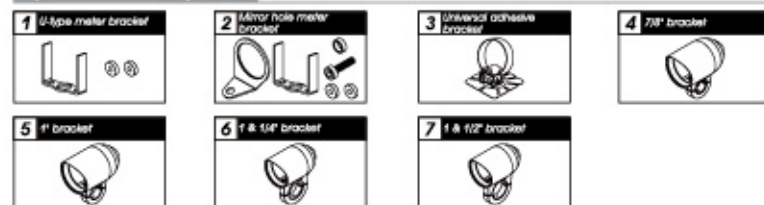
To make the needle stable for the high vibrations, we adopt the stepper motor on all our needle meters. This Speedometer with illuminated needle is very easy to read at night. The odometer and tripmeter on the digital screen gives precisely the mileage. This instrument will fit the OEM speed sensor. Want something different? This is the right gauge.



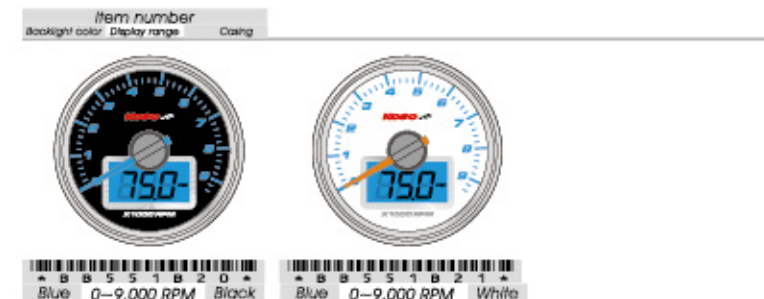
- Speedometer Display range: 0~220 km/h (0~140 MPH)  
Display unit: MPH
- Display internal <0.5 second
- Odometer Display range: 0~99999 km (mile),  
reset automatically after 99999 km (mile)  
Display unit: 1 km (mile)
- Trip meter Display range: 0~999.9 km (mile),  
reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D55 X 57 mm
- Meter weight Around 190 g



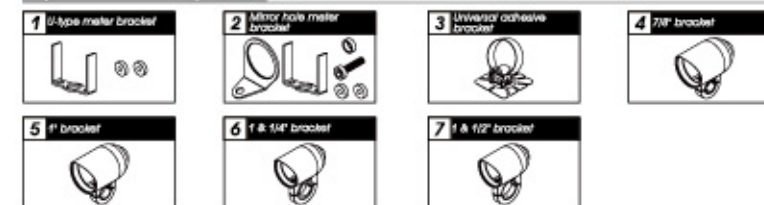
#### Option accessory



- Tachometer Display range: 0~9,000 RPM  
Display unit: 100 RPM
- Display internal <0.5 second
- Stroke / piston setting 2 Stroke: 1, 2, 3, 4 pistons  
4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
- Oil press Display range: 0~75 psi  
Display unit: 0.1 psi
- Display internal <0.5 second
- Supply voltage DC 12 V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D55 X 57 mm
- Meter weight Around 190 g



#### Option accessory



GP style

E-mark approval

### HD-01R Tachometer (with Shift light)

To make the needle stable for the high vibrations, we adopt the stepper motor on all our needle meters. With the auto-scan function, the meter will scan when the engine is turned on. This tachometer with illuminated needle is very easy to read at night. The digital screen gives precious informations on the oil pressure, and its warning function could also save the engine from bad damages. This instrument will fit with the OEM oil pressure sensor. Want something different? This is the right gauge.



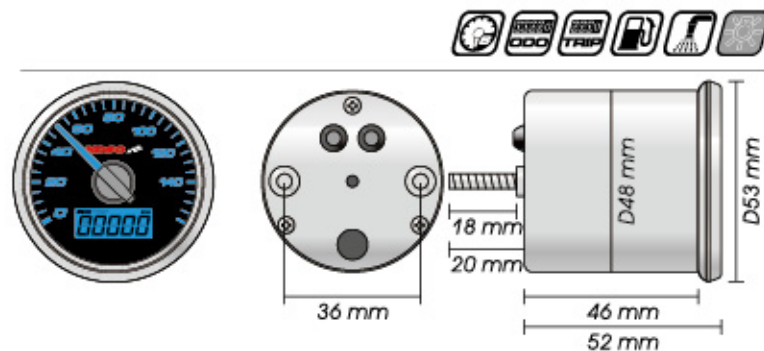
## D48 SPEEDOMETER

For fitting the demand for the super small speedometer, it takes us almost one year to finish the super tiny electronic speedometer.

Instead of using the traditional mechanic movement, KOSO try to combine the high tech stepper motor with the LCD into the tiny speedometer.

With the stepper motor and LCD, the new speedometer comes with the luminous needle and Backlight powered by the super bright LED will work much better on your bike.

Are you still looking for the tiny speedometer for your beautiful bike? Here it is!



- Speedometer Display range: 0~160 km/h (mph)  
Display unit: 1 km/h (mph)
- Display internal <0.5 second
- Odometer Display range: 0~99,999 km (mile), reset automatically after 99,999 km (mile)  
Display unit: 1 km (mile)
- Trip meter Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Tire circumference setting Setting range: 300~2,500 mm  
Setting unit: 1 mm •Pulse setting: 1~60
- Fuel meter Display range: 0%~100%  
Setting range: 100 Ω, 510 Ω, User
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D48 X 52 mm
- Meter weight Around 132.2 g

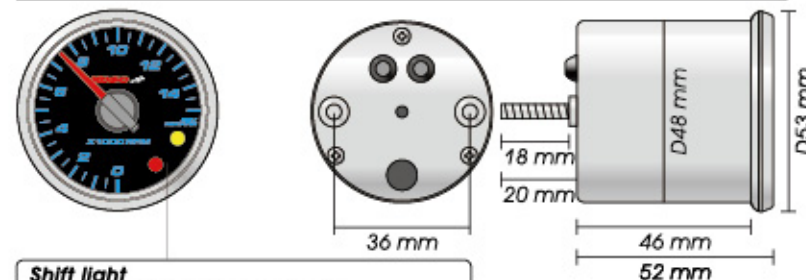
Item number  
Backlight color: Display range Panel color



Blue 0~160 Black

### Option accessory

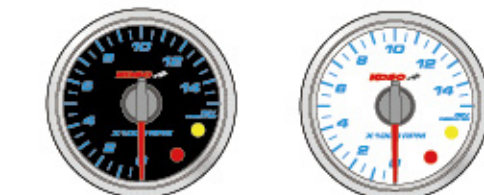
- 1 Dio magnet screw
- 2 Active speed sensor
- 3 Digital speed signal sensor
- 4 Digital speed signal sensor
- 5 Digital speed signal sensor
- 6 Digital speed signal sensor
- 7 Mirror hole meter bracket
- 8 U-type meter bracket



- Shift light**
- Setting range: 0~15,000 RPM.
  - Setting unit: 500 RPM.
- 

- Tachometer Display range: 0~15,000 RPM  
Display unit: 500 RPM
- Display internal <0.5 second
- Shift light Setting range: 0~15,000 RPM  
Setting unit: 500 RPM
- MAX RPM record Display range: 0~15,000 RPM
- Stroke / piston setting 2 Stroke: 1, 2 pistons  
4 Stroke: 1, 2, 3, 4 pistons
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D48 X 52 mm
- Meter weight Around 117 g

Item number  
Backlight color: Display range Panel color



Blue 0~15,000 RPM Black Blue 0~15,000 RPM White

### Option accessory

- 1 Temp sensor with set (2 M)
- 2 Oil temp sensor adapter
- 3 Water temp sensor adapter
- 4 Temp sensor
- 5 Cylinder head temp sensor
- 6 U-type meter bracket
- 7 Mirror hole meter bracket
- 8 Universal adhesive bracket

## D48 TACHOMETER

To make the needle stable for the high vibration situation, we adopt the stepper motor on all of our needle meter series.

With the auto-scan function, the meter will scan when you turn on your machine.

The 15,000 RPM tachometer with illuminated needle and dial is much easily for you to read in night.

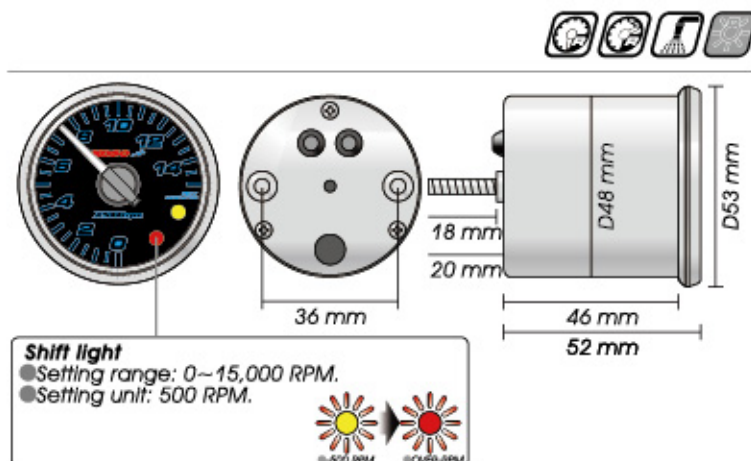
Two colors for you to choose black look or the simple white meter face design with the red needle.

For fitting different models, we also provide you the set table tachometer with a shift light for another choice.



## D48 TACHOMETER

Get a faster RPM reading with this GP2 style tachometer! Its upgraded internal motor allows the needle to respond faster and be more stable. The black background will allow you to see the warning light easily even under the sun. Compact, lightweight, this meter is perfect for all motorcycles.



**Shift light**  
 ● Setting range: 0~15,000 RPM.  
 ● Setting unit: 500 RPM.

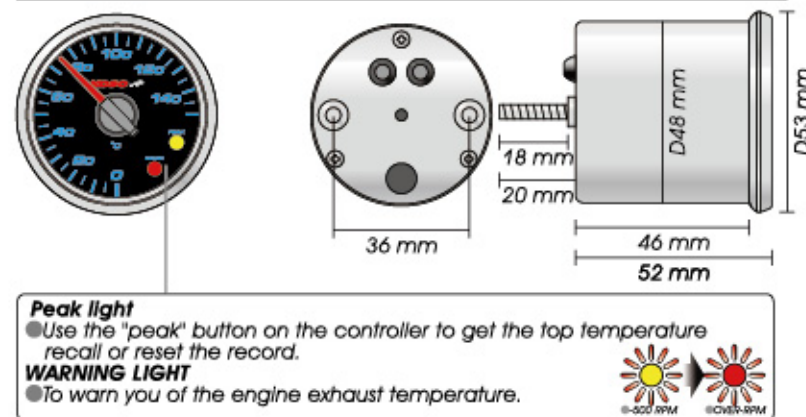
- Tachometer Display range: 0~15,000 RPM  
Display unit: 500 RPM
- Display internal <0.5 second
- Shift light Setting range: 0~15,000 RPM  
Setting unit: 500 RPM
- MAX RPM record Display range: 0~15,000 RPM
- Stroke / piston setting 2 Stroke: 1, 2 pistons  
4 Stroke: 1, 2, 3, 4 pistons
- Supply voltage DC 12 V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D48 X 52 mm
- Meter weight Around 117 g

Item number  
 Backlight color Display range Panel color



Blue 0~15,000 RPM Black

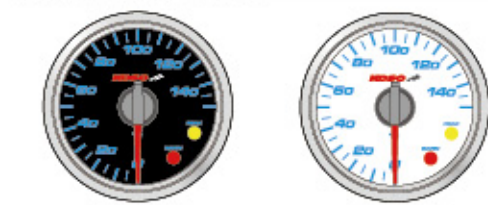
Option accessory



**Peak light**  
 ● Use the "peak" button on the controller to get the top temperature recall or reset the record.  
**WARNING LIGHT**  
 ● To warn you of the engine exhaust temperature.

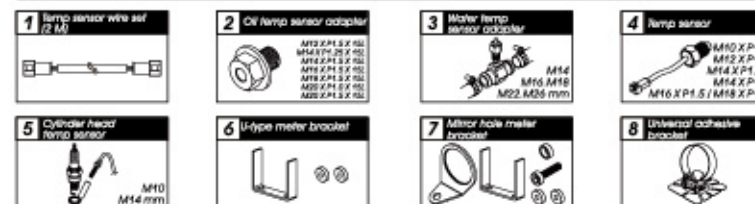
- Thermometer Display range: 0~150°C  
Display unit: 1°C
- Thermometer level Setting range: 0~150°C  
Setting unit: 1°C
- Top temperature record Display range: 0~150°C
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D48 X 52 mm
- Meter weight Around 117 g

Item number  
 Backlight color Display range Panel color



Blue 0~150°C Black Blue 0~150°C White

Option accessory



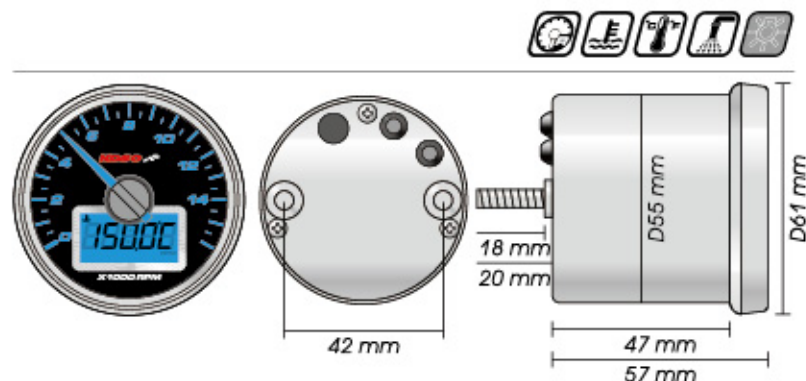
## D48 THERMOMETER

To make the needle stable for the high vibration situation, we adopt the stepper motor on all of our needle meter series.  
 With the auto-scan function, the meter will scan when you turn on your machine.  
 The thermometer could reach 150°C, so it is enough for you to use it for checking the water temperature or the oil temperature on your machine.  
 We have two colors for you to choose black carbon look or the simple white meter face design.  
 We also provide the thermometer with the set table heat warning light as a option.



## D55 TACHOMETER

To make the needle stable for the high vibrations, we adopt the stepper motor on all our needle meter. With the auto-scan function, the meter will scan when the engine is turned on. This 9,000 RPM with illuminated needle is very easy to read at night. The water or oil temperature digital screen gives precious informations on the engine. Want something different? This is the right gauge.



- Tachometer Display range: 0~9,000 RPM (0~16,000 RPM)  
Display unit: 100 RPM
- Display interval <0.5 second
- Stroke / piston setting 2 Stroke: 1, 2, 3, 4 pistons  
4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
- Thermometer Display range: 0~150°C (32~302°F)  
Display unit: 0.1 °C (°F), °C & °F for alternative
- Display interval <0.5 second
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D55 X 57 mm
- Meter weight Around 190 g

Item number Backlight color Display range Panel color



\*BA551B22\* Blue 0~9,000 RPM Black  
\*BA551B20\* Blue 0~16,000 RPM Black

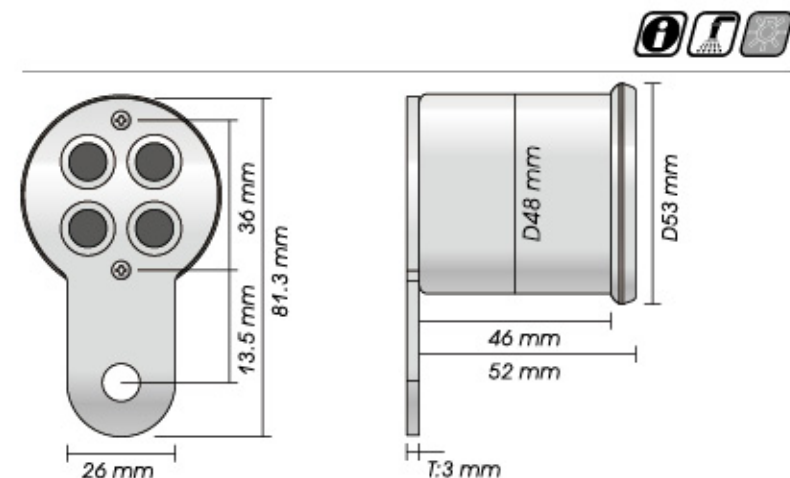


\*BA551B23\* Blue 0~9,000 RPM White  
\*BA551B24\* Blue 0~16,000 RPM White



## D48 TELLTALES METER

The meter is designed for matching all the Street series meter without the telltales.  
The 48 mm case is small and easy to install on the bike.



- Telltales
  - ⓘ High beam (Blue)
  - ↔ Repeater (Green)
  - N Neutral (Green)
  - ⚡ Oil (Red)
- Bulb specification T5 / 2W
- Supply voltage DC 12V
- Effective temperature range -10~+60 °C
- Meter standard JIS D 0203
- Meter size (D X H) D48 X 52 mm
- Meter weight Around 80 g

Item number Backlight color Display range Panel color



\*BA482000\* Black



## D55 SPEEDOMETER

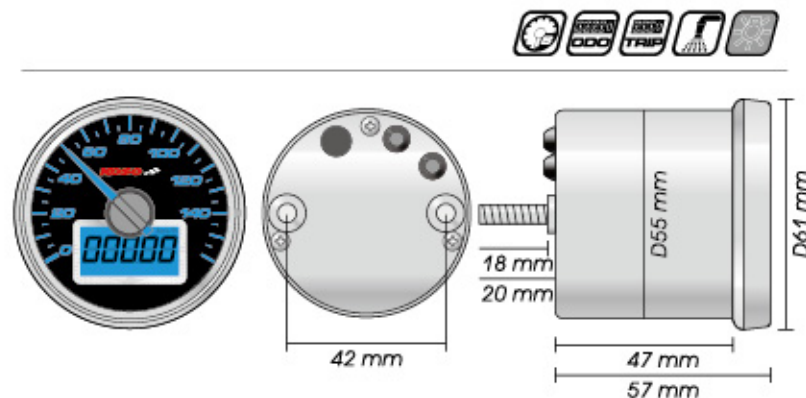
To make the needle stable for the high vibration situation, we adopt the stepper motor on all of our needle meter series.

With the auto-scan function, the meter will scan when you turn on your machine.

The illuminated needle design is much easily for you to read in night.

Two different speed ranges for you to choose depending on your bikes.

The 160 km/h dial for scooters & atvs, and the 260 km/h dial for motorcycles. Just pick the one you need and then enjoy your riding!



- Speedometer Display range: 0~160 / 0~260 km/h (MPH)  
Display unit: 1 km/h (MPH)
- Display Internal <0.5 second
- Odo meter Display range: 0~99999 km (mile),  
reset automatically after 99999 km (mile)  
Display unit: 1 km (mile)
- Trip meter Display range: 0~999.9 km (mile),  
reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Tire circumference setting Setting range: 300~2,500 mm  
Setting unit: 1 mm • Sensor point: 1~20
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D55 X 57 mm
- Meter weight Around 190 g

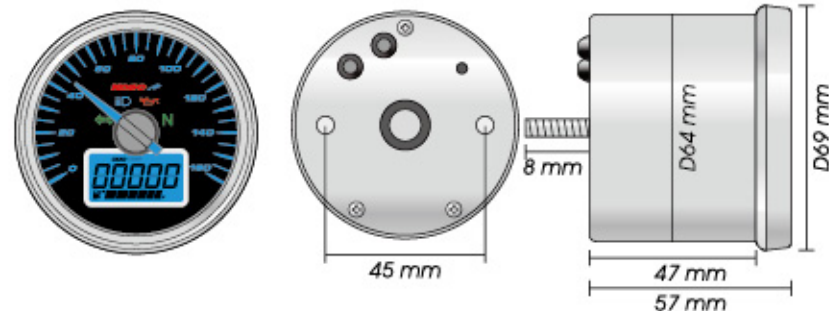
Item number Backlight color Display range Panel color



Blue 0~160 Black Blue 0~260 Black



Blue 0~160 White Blue 0~260 White



- Speedometer Display range: 0~160 km/h (MPH)  
Display unit: 5 km/h (MPH)
- Odo meter Display range: 0~99999 km (mile) , reset  
automatically after 99999 km (mile).  
Display unit: 1km (mile).
- Trip meter Display range: 0~999.9 km (mile) , reset  
auto matically after 999.9 km (mile).  
Display unit: 0.1 km (mile).
- Tire circumference Setting range: 300~2,500 mm  
Setting unit: 1 mm • Sensor point: 1~20
- Fuel gauge Display in 6 grids (Around 16% for each grid)
- Fuel resistance setting 100Ω, 250Ω, 510Ω, 1200Ω, SW
- Effective voltage DC 12 V
- Meter size (D X H) D64 X 57 mm
- Meter weight Around 190 g

Item number Backlight color Display range Panel color



Blue 0~160 Black

### Option accessory

- 1 Dio magnet screw
- 2 Active speed sensor
- 3 Digital speed signal sensor
- 4 Digital speed signal sensor
- 5 Digital speed signal sensor
- 6 Digital speed signal sensor
- 7 L-type speed sensor bracket
- 8 U-type meter bracket

## D64 GP II STYLE SPEEDOMETER (MPH)

Our new D64 speedometer was especially made to save room on your dashboard. We were able to combine all basic functions on a 64 mm classic needle gauge. This instrument can be installed on any type of vehicle that requires speed and indicator lights. Want something different? This is the right gauge!





## Classic

Eclipse style

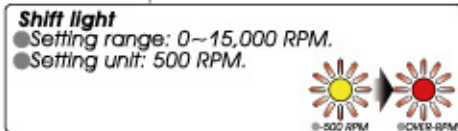
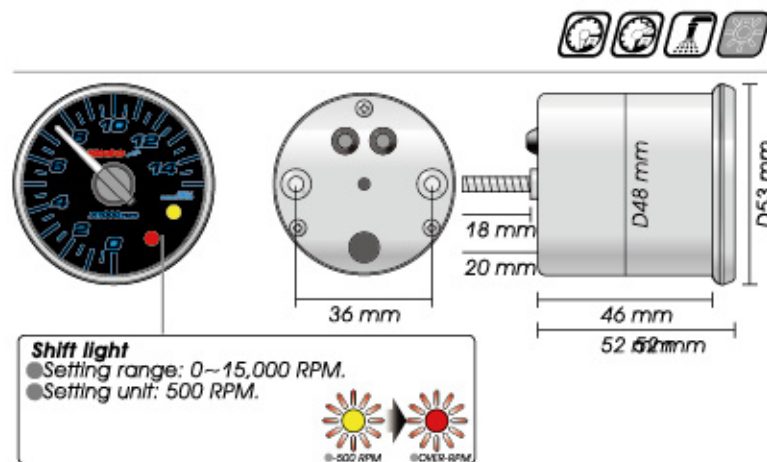
E-mark approval

### D48 TACHOMETER

The new eclipse style is focused on the smoke lens design and the white LED Backlight using in the meter. With the new design smoke lens, the meter will look almost black when it is off, so no one could know which meter you install on your bike.

With the high contrasting white LED design, the dial will look very clear in the night time.

The new eclipse meter comes with the shift light, so you could set it up according to your bike and command the best gear shift timing.



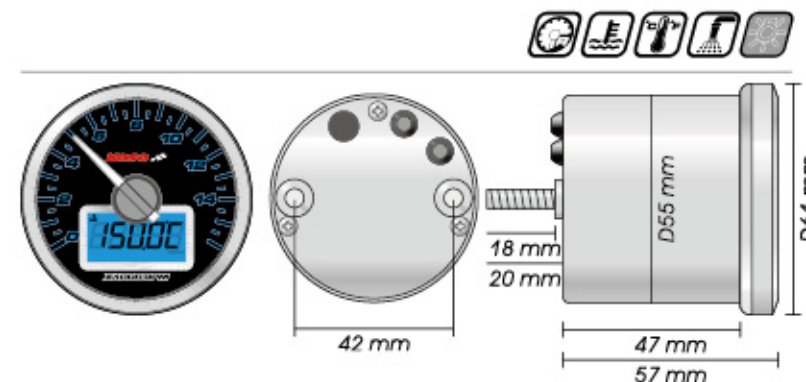
- Tachometer Display range: 0~15,000 RPM  
Display unit: 500 RPM
- Display internal <0.5 second
- Shift light Setting range: 0~15,000 RPM  
Setting unit: 500 RPM
- MAX RPM record Display range: 0~15,000 RPM
- Stroke / piston setting 2 Stroke: 1, 2 pistons  
4 Stroke: 1, 2, 3, 4 pistons
- Supply voltage DC 12 V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D48 X 52 mm
- Meter weight Around 117 g

Item number  
Backlight color Display range Panel color



\* B A 4 8 3 0 1 5 \*  
Blue 0~15,000 RPM Black

Option accessory



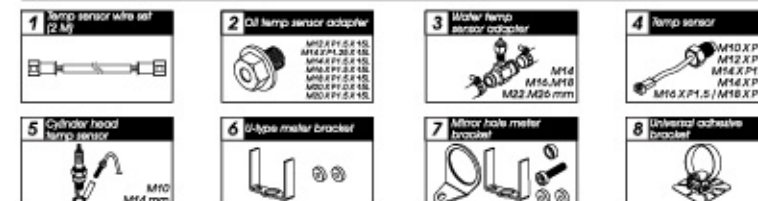
- Tachometer Display range: 0~9,000 RPM (0~16,000 RPM)  
Display unit: 100 RPM
- Display internal <0.5 second
- Stroke / piston setting 2 Stroke: 1, 2, 3, 4 pistons  
4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
- Thermometer Display range: 0~150°C (32~302°F)  
Display unit: 0.1°C (°F), °C & °F for alternative
- Display internal <0.5 second
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D55 X 57 mm
- Meter weight Around 190 g

Item number  
Backlight color Display range Panel color



\* B A 5 5 4 0 1 5 \*  
Blue 0~9,000 RPM Black

Option accessory



Eclipse style

E-mark approval

### D55 TACHOMETER

The new eclipse style is focused on the smoke lens design and the white LED Backlight using in the meter. With the new design smoke lens, the meter will look almost black when it is off, so no one could know which meter you install on your bike.

With the high contrasting white LED design, the dial will look very clear in the night time.

The new eclipse tachometer comes with both 16,000 RPM & 9,000 RPM scale for you to choose for your own bike.



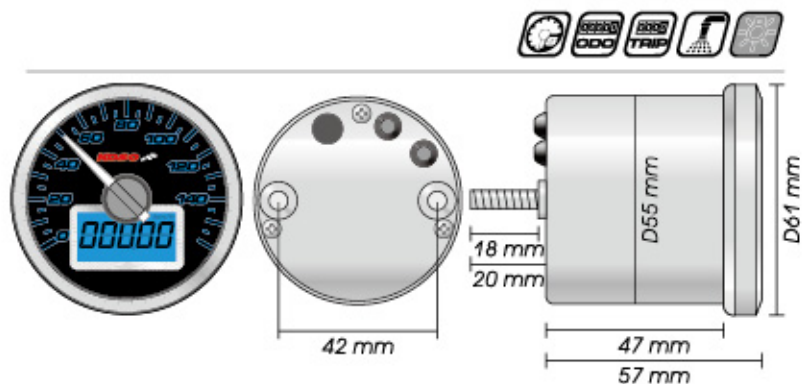
## D55 SPEEDOMETER

The new eclipse style is focused on the smoke lens design and the white LED Backlight using in the meter.

With the new design smoke lens, the meter will look almost black when it is off, so no one could know which meter you install on your bike.

With the high contrasting white LED design, the dial will look very clear in the night time.

The new eclipse speedometer comes with both 160 km/h & 260 km/h scale for you to choose for your own bike.



- Speedometer Display range: 0~160 km/h (0~260 km/h)  
Display unit: 1 km/h
- Display internal <0.5 second
- Odometer Display range: 0~99999 km,  
reset automatically after 99999 km  
Display unit: 1 km
- Trip meter Display range: 0~999.9 km,  
reset automatically after 999.9 km  
Display unit: 0.1 km
- Tire circumference setting Setting range: 300~2,500 mm  
Setting unit: 1 mm • Sensor point: 1~20
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D55 X 57 mm
- Meter weight Around 190 g

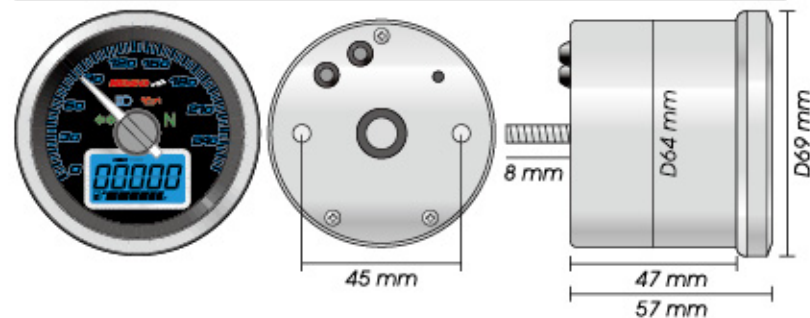
Item number  
Backlight color Display range Panel color



Blue 0~160 Black

### Option accessory

- 1 Dia magnet screw  
D55-M5X20-L1  
M5 X P20 B Z 12Z  
M5 X P15 B Z 12Z  
M5 X P15 B Z 15Z  
M5 X P15 B Z 20Z  
M5 X P15 B Z 25Z
- 2 I-type speed sensor bracket
- 3 U-type meter bracket
- 4 Mirror hole meter bracket
- 5 Universal adhesive bracket



- Speedometer Display range: 0~160 | 0~260 km/h (mph)  
Display unit: 1 km/h (mph)
- Display internal <0.5 second
- Odometer Display range: 0~99999 km (mile)  
reset automatically after 99999 km (mile)  
Display unit: 1 km (mile)
- Trip meter Display range: 0~999.9 km (mile)  
reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Tire circumference setting Setting range: 300~2,500 mm  
Setting unit: 1 mm • Sensor point: 1~20
- Fuel level Display range: 6 segment bar graph  
Display unit: 16.6 % for each segment  
Setting range: 100Ω, 250Ω, 510Ω, 1200Ω, SW
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D64 X 57 mm
- Meter weight Around 190 g
- Telltales  
↔ Repeater (Green)  
⬅ High beam (Blue)  
⬇ Oil (Red)  
N Neutral (Green)

Item number  
Backlight color Display range Panel color



Blue 0~160 Black



Blue 0~260 Black

## D64 SPEEDOMETER

Sometimes it is not convenient for you to find the space to install the telltales after replacing the original meter with other meters. For solving this problem, KOSO make the new 64 mm speedometer series to fit all your demands.

We add the telltales inside the meter, so you could use less space to install the new meter.

The new eclipse style is focused on the smoke lens design and the white LED Backlight using in the meter.

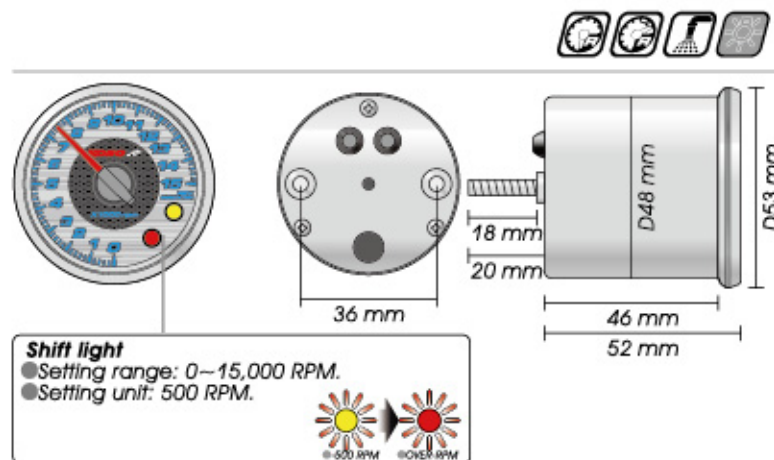
With the new design smoke lens, the meter will look almost black when it is off, so no one could know which meter you install on your bike.

With the high contrasting white LED design, the dial will look very clear in the night time.



## D48 TACHOMETER

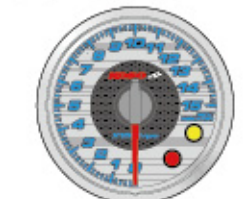
To make the needle stable for the high vibrations, we adopt the stepper motor on all our needle meter. With the auto-scan function, the meter will scan when the engine is turned on. This 15,000 RPM with illuminated needle is very easy to read at night. The instrument also have a rev indicator light, that can be used as a shift light.



**Shift light**  
 ● Setting range: 0~15,000 RPM.  
 ● Setting unit: 500 RPM.

- Tachometer Display range: 0~15,000 RPM  
Display unit: 500 RPM
- Display internal <0.5 second
- Shift light Setting range: 0~15,000 RPM  
Setting unit: 500 RPM
- MAX RPM record Display range: 0~15,000 RPM
- Stroke / piston setting 2 Stroke: 1, 2 pistons  
4 Stroke: 1, 2, 3, 4 pistons
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D48 X 52 mm
- Meter weight Around 117 g

Item number  
Backlight color Display range Panel color



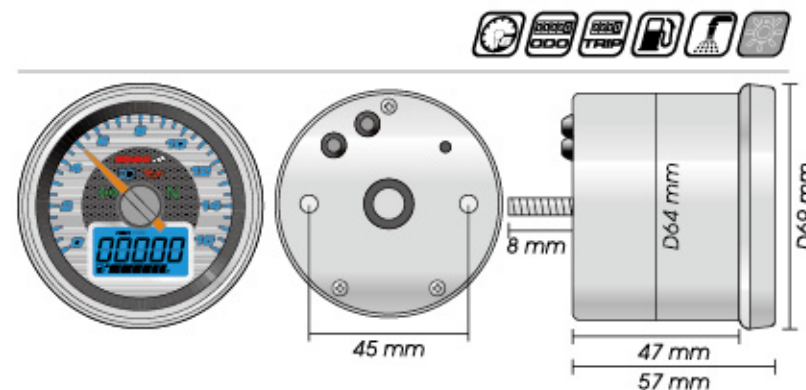
Blue 0~15,000 RPM Black

Option accessory



## D64 SPEEDOMETER

Sometimes it is not convenient for you to find the space to install the telltales after replacing the original meter with other meters. For solving this problem, KOSO make the new 64mm speedometer series to fit all your demands. We add the telltales inside the meter, so you could use less space to install the new meter. The new chrome dial is designed for fitting the speedometer on the custom bike. With the chrome design, you could get rid of the plastic dial and get a better look chrome to fit your bike.



- Speedometer Display range: 0~160 / 0~260 km/h (mph)  
Display unit: 1 km/h (mph)
- Display internal <0.5 second
- Odometer Display range: 0~99999 km (mile)  
reset automatically after 99999 km (mile)  
Display unit: 1 km(mile)
- Trip meter Display range: 0~999.9 km(mile)  
reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Tire circumference setting Setting range: 300~2,500 mm  
Setting unit: 1 mm • Sensor point: 1~20
- Fuel level Display range: 6 segment bar graph  
Display unit: 16.6 % for each segment  
Setting range: 100Ω, 250Ω, 510Ω, 1200Ω, SW
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D64 X 57 mm
- Meter weight Around 190 g
- Telltales  
↔ Repeater (Green)  
↔ High beam (Blue)  
↔ Oil (Red)  
N Neutral (Green)

Item number  
Backlight color Display range Panel color



Blue 0~160 Chrome Blue 0~260 Chrome



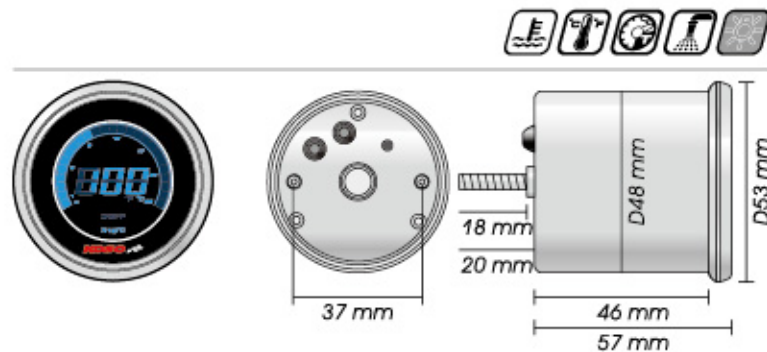
## Classic

Black LCD

E-mark approval

# DL-01T D48 THERMOMETER

The TEMPERATURE large digits bar makes it easy to read at high speed. LCD can be displayed °C or °F. This nice backlit instrument will warn you before your engine becomes too hot.



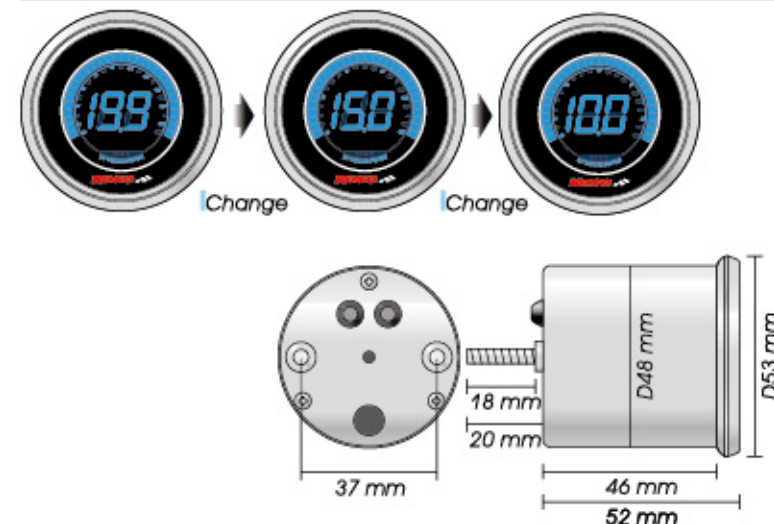
- Thermometer Display range: 0~250°C (32~500°F)  
Display unit: 1°C (°F) for alternative
- Bar graph thermometer Display range: 0~250°C (32~500°F)  
Display unit: 10°C (20°F)
- Temperature alarm Setting range: 60~250°C (140~482°F)  
Setting unit: 1°C (°F)
- Effective voltage DC12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size D48 X 52.8 mm
- Meter weight Around 117 g

Item number  
Backlight color Display range Panel color



Blue 0~250°C Black

Option accessory



- Tachometer Display range: 0~10,000 / 15,000 / 19,900 RPM  
Display unit: 10 RPM
- Display internal <0.5 second
- MAX RPM record Display range: 0~10,000 / 15,000 / 19,900 RPM
- Stroke / piston setting 2 Stroke: 1, 2, 3, 4 pistons  
4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (D X H) D48 X 52 mm
- Meter weight Around 117 g

Item number  
Backlight color Display range Panel color



Blue 0~20,000 RPM Black

Option accessory



Black LCD

E-mark approval

# DL-01R D48 TACHOMETER

The DL-01R tachometer is a new type of LCD that we introduced in 2010. After 2 years of research and development, we came up with this nice RPM meter. The RPM large digits and the REV indicator bar make it easy to read at high speed. The REV indicator bar can be programmed for 10,000, 15,000 or 20,000 RPM recall function will give valuable informations on your engine status.



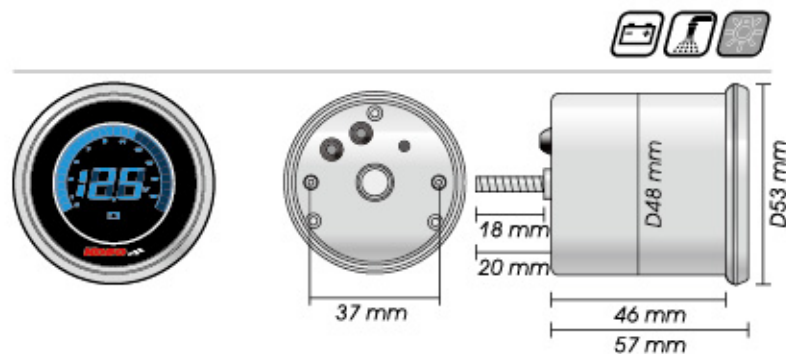
## Classic

Black LCD

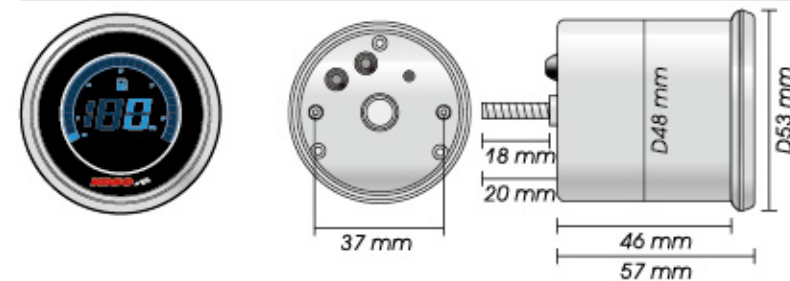
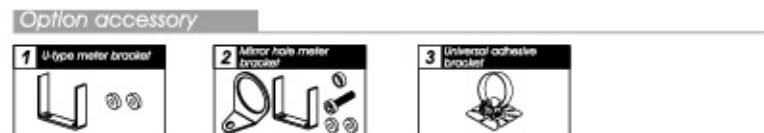
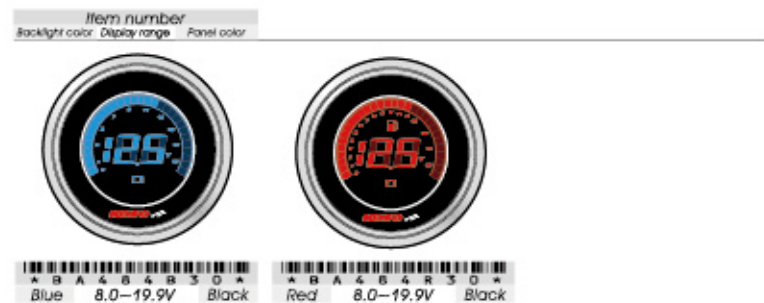
E-mark approval

### D48 VOLT METER

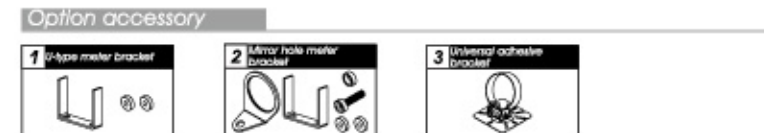
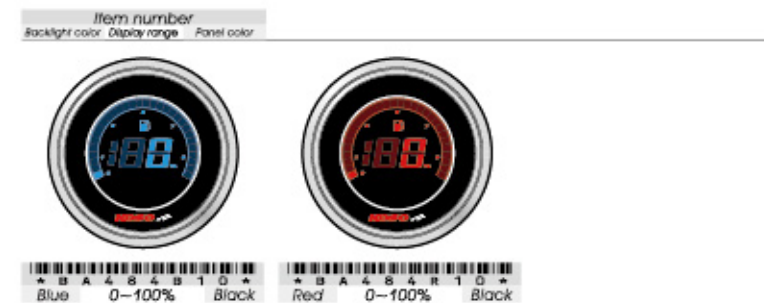
This voltage gauge will give you the status of your battery at all time. The backlight makes it easy to read even at night.



|                                   |  |
|-----------------------------------|--|
| ● Volt meter                      | Display range : DC 8.0~19.9 V<br>Display unit : 0.1 V                    |
| ○ Bar graph volt meter            | Display range : DC 8.0~19.9 V<br>Display unit : Around 0.66V per segment |
| ○ The low voltage warning setting | Setting range : DC 8.0~12.0 V<br>Setting unit : 0.1 V                    |
| ● Effective voltage               | DC12V  |
| ● Effective temperature range     | -10~+60°C  |
| ● Meter standard                  | JIS D 0203 S2  |
| ● Meter size                      | D48 X 52.8 mm  |
| ● Meter weight                    | Around 117 g   |



|                               |   |
|-------------------------------|---|
| ● Fuel meter                  | Display range: 0~100%<br>Display unit : 1%            |
| ○ Bar graph fuel meter        | Display range: 0~100%<br>Display unit: Around 3.3%    |
| ○ Fuel level warning          | Setting range: 0~25%<br>Setting unit: 1%              |
| ● Fuel resistance             | Setting range: 10(100 Ω), 51(510 Ω)<br>US(Customize ) |
| ● Effective voltage           | DC 12V  |
| ● Effective temperature range | -10~+60°C   |
| ● Meter standard              | JIS D 0203 S2   |
| ● Meter size                  | D48 X 52.8 mm   |
| ● Meter weight                | Around 117 g  |



Black LCD

E-mark approval

### D48 FUEL METER

The newly design black LCD style meter is designed to match to the street style meter which doesn't come with the fuel meter.

The fuel meter is adjustable for both 100 ohm & 510 ohm fuel sensor system.

Besides that, the new fuel meter comes with the fuel insufficient warning function.

You could make the warning setting according to your demand.



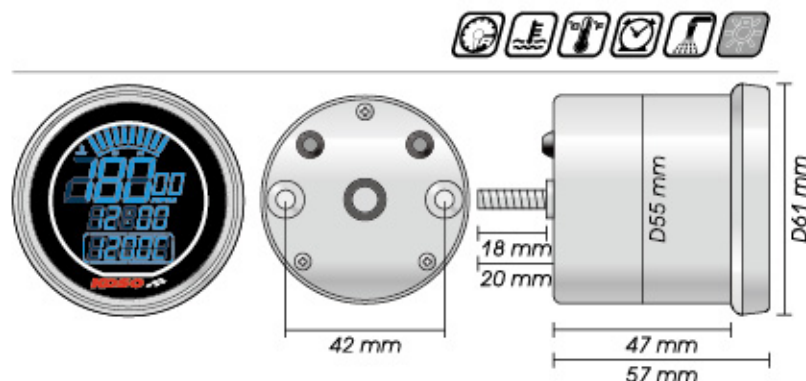
## Classic

Black LCD

E-mark approval

### DL-01R D55 TACHOMETER

The DL-02R tachometer has been developed with the latest technology. Its unique casing allows the adjust buttons to be right in the front. This makes the DL-02R a very convenient instrument to adjust. The big digits and blue backlight make the DL-02R a very easy gauge to read even at night.



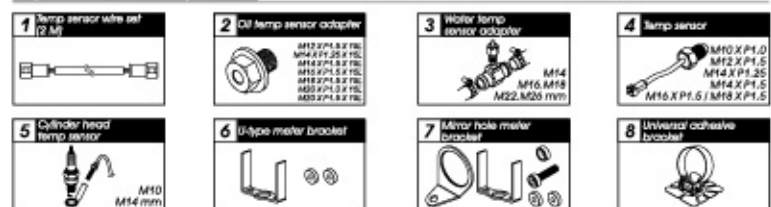
|                               |   |
|-------------------------------|---|
| ● Tachometer                  | Display range: 0~18,000 RPM<br>Display unit: 100 RPM  |
| ○ Display internal            | <0.5 second   |
| ○ Stroke / piston setting     | 2 Stroke: 1, 2, 3, 4 pistons<br>4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons                             |
| ● Thermometer                 | Display unit: °C & °F for alternative   |
| ● Digital thermometer         | Display range: 0~120°C (32~248°F)<br>Display unit: 0.1°C(°F)  |
| ● Thermometer level           | Display range: 20~120°C (68~248°F),<br>10 segment bar graph<br>Display unit: 10°C (50°F) for each segment |
| ○ Display internal            | <0.5 second   |
| ● Clock                       | 24 H  |
| ● Supply voltage              | DC 12V  |
| ● Effective temperature range | -10~+60°C   |
| ● Meter standard              | JIS D 0203  |
| ● Meter size (D X H)          | D55 X 57 mm   |
| ● Meter weight                | Around 190 g  |

Item number  
Backlight color Display range Panel color



Item number: A B 5 5 2 B 8 0  
Blue 0~18,000 RPM Black

#### Option accessory

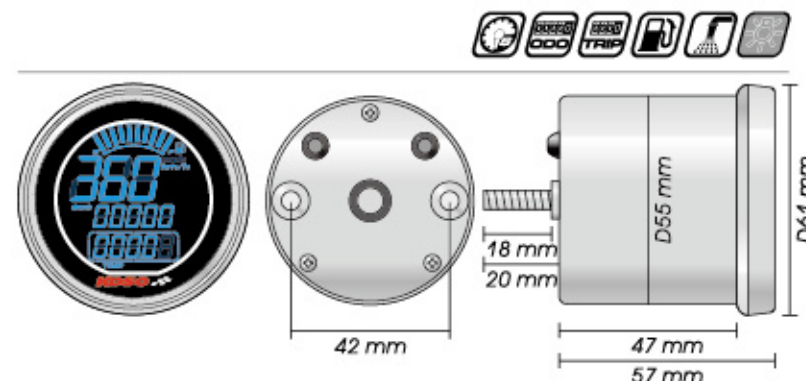


Black LCD

E-mark approval

### DL-01S D55 SPEEDOMETER

This digital instrument gives the basic functions such as speed, tripmeter, odometer and fuel level. Its round shape makes it perfect for motorcycles, ATV's and scooters. This new type of display will make your bike look different! The facing of the instrument become totally dark when the ignition is off.



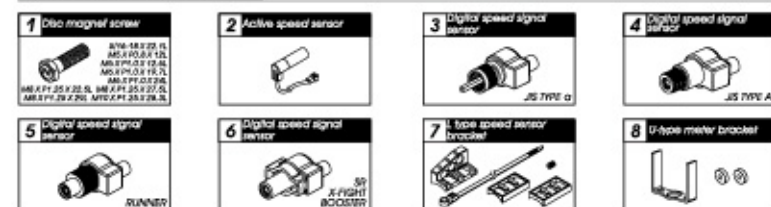
|                               |   |
|-------------------------------|---|
| ● Speedometer                 | Display range: 0~360 km/h (0~223 MPH)<br>Display unit: km/h & MPH for alternative                                     |
| ○ Display internal            | <0.5 second   |
| ○ Odometer                    | Display range: 0~99999 km (mile),<br>reset automatically after 99999 km (mile)<br>Display unit: 1 km (mile)           |
| ○ Trip meter                  | Display range: 0~999.9 km (mile),<br>reset automatically after 999.9 km (mile)<br>Display unit: 0.1 km (mile)         |
| ○ Tire circumference setting  | Setting range: 300~2,500 mm<br>Setting unit: 1 mm • Pulse setting: 1~60   |
| ● Fuel level                  | Display range: 10 segment bar graph<br>Display unit: 10 % for each segment<br>Setting range: 100 Ω, 510 Ω, no display |
| ● Supply voltage              | DC 12V  |
| ● Effective temperature range | -10~+60°C   |
| ● Meter standard              | JIS D 0203  |
| ● Meter size (D X H)          | D55 X 57 mm   |
| ● Meter weight                | Around 190 g  |

Item number  
Backlight color Display range Panel color



Item number: A B 5 5 2 B 7 0  
Blue 0~360 km/h Black

#### Option accessory



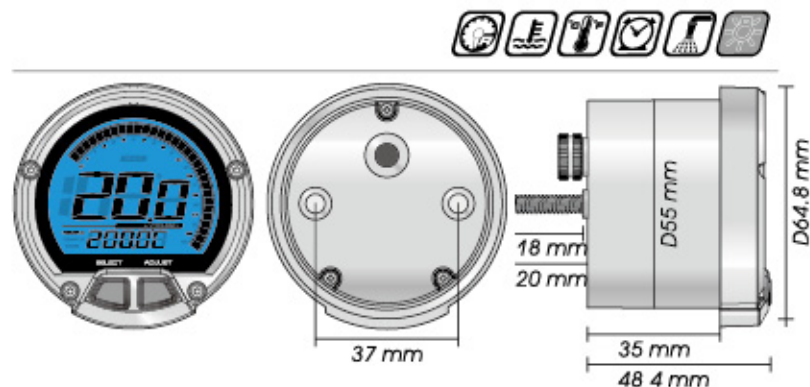
## Classic

Black LCD

E-mark approval

### DL-02R D55 TACHOMETER

The DL-02R tachometer has been developed with the latest technology. Its unique casing allows the adjust buttons to be right in the front. This makes the DL-02R a very convenient instrument to adjust. The big digits and blue backlight make the DL-02R a very easy gauge to read even at night.



- Digital tachometer Display range: 0~20,000 RPM  
Display unit: 100RPM
- Tachometer level Display range: 0~10,000 / 15,000 / 20,000 RPM for alternative  
0~10,000 RPM, 30 segment bar graph  
Display unit: 333 RPM for each segment  
0~15,000 RPM, 30 segment bar graph  
Display unit: 500 RPM for each segment  
0~20,000 RPM, 30 segment bar graph  
Display unit: 666 RPM for each segment
- Display internal <0.5 second
- Stroke / piston setting 2 Stroke: 1, 2, 3, 4 pistons  
4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
- Thermometer Display range: 0~250°C (32~482°F)  
Display unit: 0.1°C (°F) for alternative
- Display internal <0.5 second
- Clock 24 H
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (D X H) D55 X 48.4 mm

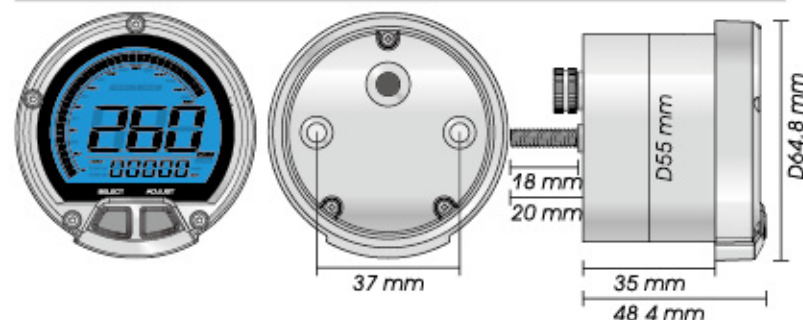
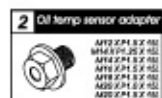
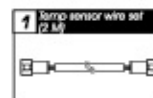
Item number  
Backlight color Display range Panel color



**Clockwise**  
\*BA555B16\* Blue 0~20,000 RPM Black  
\*BA555B11\* Blue 0~20,000 RPM Chrome

**Anti-clockwise**  
\*BA555B17\* Blue 0~20,000 RPM Black  
\*BA555B12\* Blue 0~20,000 RPM Chrome

#### Option accessory



- Speedometer Display range: 0~260 km/h (0~160 MPH)  
Display unit: km/h & MPH for alternative
- Display internal <0.5 second
- Odometer Display range: 0~99999 km (mile),  
reset automatically after 99999 km (mile)  
Display unit: 1 km (mile)
- Trip meter Display range: 0~999.9 km (mile),  
reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Tire circumference setting Setting range: 300~2,500 mm  
Setting unit: 1 mm - Pulse setting: 1~60
- Top speed record Display range: 0~260 km/h (0~160 MPH)
- AVE speed Display range: 0~260 km/h (0~160 MPH)
- Riding time Display range: 0~99'59"99 second.
- Fuel meter Display range: 0%~100%  
Setting range: 100 Ω, 510 Ω, no display
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (D X H) D55 X 48.4 mm

Item number  
Backlight color Display range Panel color



\*BA555B10\* Blue 0~260 km/h Chrome  
\*BA555B15\* Blue 0~260 km/h Black

#### Option accessory



Black LCD

E-mark approval

### DL-02S D55 SPEEDOMETER

The DL-02S speedometer has been developed with the latest technology. Its unique casing allows the adjust buttons to be right in the front. This makes the DL-02S a very convenient instrument to adjust. The big digits and blue backlight make the DL-02S a very easy gauge to read even at night.



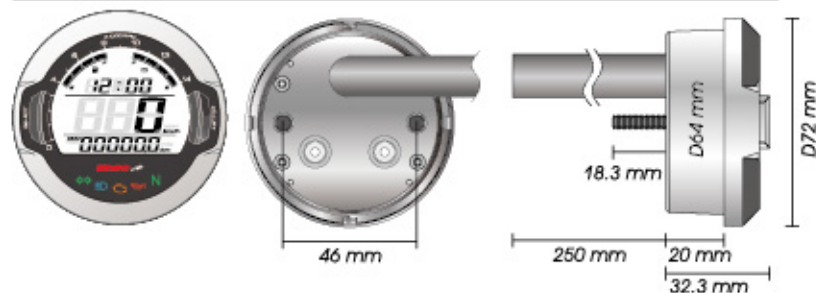
## Classic

GP style

E-mark approval

### D64 DL-03SR

The DL-03SR GP style speedo feature about all the functions you need to go on the street. The large digits, indicator lights, and backlight make this instrument easy to read, even at night. The universal speed sensor and bracket allow to install this meter on about any applications. Compact, lightweight, easy to operate, this is our DL-03SR GP style speedometer.



- Speedometer Display range: 0~360 km/h (0~223 MPH)  
Display unit: km/h & MPH for alternative
- Odometer Display range: 0~99999.9 km (mile),  
reset automatically after 99999 km (mile)  
Display unit: 0.1 km (mile)
- Trip meter A/B Display range: 0~999.9 km (mile),  
reset automatically after 999.9 km (mile)  
Display unit: 0.1 km (mile)
- Fuel / Remaining distance Display range: 99.9~0 km (mile)  
Display unit: 0.1 km (mile)
- Tire circumference setting Setting range: 300~2,500 mm  
Setting unit: 1 mm. Pulse setting: 1~20
- Tachometer Display range: 15 levels
- Fuel meter Display range: 4 levels
- Fuel resistance Setting range: 100Ω, 250Ω, 510Ω, 1,200Ω
- Clock 24 H
- Digital Volt meter Display range: DC 5~24 V. Flashing warning  
when Voltage lower than 8 V or higher than 18 V  
Display range: 4 levels  
Display unit: 1 level (low) - DC 11.6 V~12.0 V  
2 level - DC 12.1 V~12.5 V  
3 level - DC 12.6 V~13 V  
4 level (high) - DC 13.1 V
- Volt meter Display range: 4 levels  
Display unit: 1 level (low) - DC 11.6 V~12.0 V  
2 level - DC 12.1 V~12.5 V  
3 level - DC 12.6 V~13 V  
4 level (high) - DC 13.1 V
- Backlight brightness adjust Setting range: 1-5 (Darkest) ~ 5-5 (Brightest)
- Effective voltage DC 12 V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203 S2
- Meter size (D X H) D72 X 32.3 mm
- Meter weight Around 240 g
- Telltales N Neutral(green) EOBd (Amber) Oil (Red)  
H High beam (Blue) Repeater(Green)

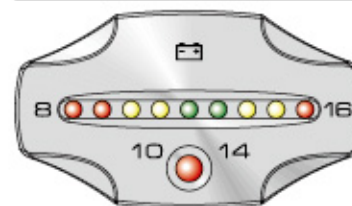
Item number  
Backlight color Display range Panel color



White



Black

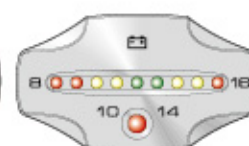


- Voltage Indicator Display range : DC 8~16 V  
Display unit : DC 1 V
- Safe voltage display range The LED zone of DC 12~13 V  
The LED showing on Green
- Supply voltage DC 12V
- Effective temperature range -10~+60°C
- Meter standard JIS D 0203
- Meter size (W X L X H) 46 X 26 X 12 mm
- Meter weight Around 24.2 g

Item number  
Backlight color Display range Panel color



Black



Silver

Mini style

E-mark approval

### CNC VOLT

As you know the bike is quite heavy, so it is very important for you to monitor the situation of the battery all the time to avoid that you need to push your bike on the road. The new LED volt meter we designed comes with the CNC machining case could fit your bike well and offer you the real time information about your battery. With the warning light design, you could easily know that the battery is in good or bad condition and react on time.





## Tachometer installation instruction

### RPM sensor

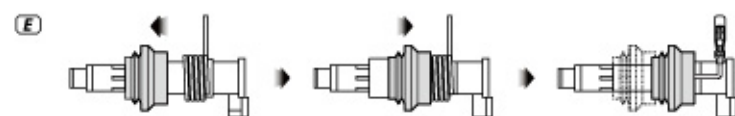
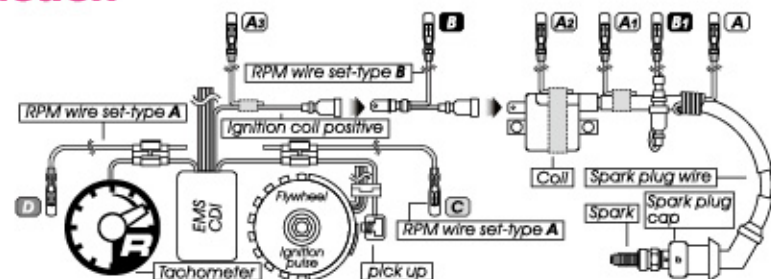
## INSTRUCTIONS

To improve the possibility to use the tachometer on different machines, we provide you 3 different ways to install the rpm sensor wiring. (only available on RX1N, RS DYNO meter dyno edition, and GP style universal tachometer 48mm & 55mm now.)

You could choose to wrap the wiring on the spark plug wire, connect to the ignition coil positive wire, or the pick up.

We know this may still not enough to fit every different model on the world, but we are doing our best to make it possible. the new KOSO GP style universal tachometer could fit most of the scooter and ATV with CDI ignition system on the market. there are different ignition systems exit on the market, and we will keep developing the new product for it.

as for our old product, we will adopt the new technology when upgrading them.



### SCOOTER

| Manufacturer | Model       | A | B           | C           | Setting |
|--------------|-------------|---|-------------|-------------|---------|
| YAMAHA       | JOG 50      | O | Orange      | White/Red   | 2C-1P   |
|              | JOG 90      | O | Orange      | White/Blue  | 2C-1P   |
|              | JOG 100     | X | X           | White/Blue  | 2C-1P   |
|              | RS 100      | O | X           | White/Blue  | 2C-1P   |
|              | MAJESTY 125 | O | Orange      | White/Blue  | 2C-1P   |
| YAMAHA/MBK   | SV MAX 125  | O | X           | X           | 2C-1P   |
|              | CYGNUS 125  | X | X           | White/Green | 2C-1P   |
|              | GTR 125     | O | X           | White/Blue  | 2C-1P   |
|              | AEROX 50    | O | X           | White/Blue  | 2C-1P   |
|              | SLIDER 50   | O | -           | X           | 2C-1P   |
| GILERA       | CHOI NORI   | O | White/Blue  | White/Red   | 2C-1P   |
|              | RUNNER 50   | O | X           | O           | 2C-1P   |
| PEUGEOT      | X-FIGHT 50  | X | Yellow/Blue | Blue/Yellow | 2C-1P   |

**A TYPE** Wrap the rpm wire onto the ignition cable wire.

**B TYPE** Connect the rpm wire to the coil positive wire.

**C TYPE** Connect the rpm wire to the pick up.

New tachometer test result:  
ATV

| Manufacturer | Model         | A | B | C | Setting |
|--------------|---------------|---|---|---|---------|
| HONDA        | Predator 500  | O | O | O | 2C-1P   |
|              | Sportsman 600 | X | O | X | 2C-1P   |
|              | Sportsman 700 | X | O | X | 2C-1P   |
| YAMAHA       | TRX 400 EX    | O | O | O | 2C-1P   |
|              | TRX 450 R     | O | O | O | 2C-1P   |
| YAMAHA       | YZF 450       | O | X | X | 2C-1P   |
|              | RAPTOR        | O | O | X | 2C-1P   |
| BOMBARDIER   | LTZ 400       | O | O | X | 2C-1P   |
|              | DS 650        | O | O | X | 2C-1P   |

Main switch wiring reference:

|          | Power     | Key on    | Ground       |
|----------|-----------|-----------|--------------|
| YAMAHA   | Red       | Brown     | Black        |
| HONDA    | Red       | Red/Black | Green        |
| SUZUKI   | Red       | Black     | Green        |
| KAWASAKI | White     | Brown     | Black/Yellow |
| KYMCO    | Red       | Black     | Green        |
| SYM      | Red       | Black     | Green        |
| PGO      | Red/White | Orange    | Black        |

**NOTE** The color listed above may differ depending on the model.

RPM wiring reference:

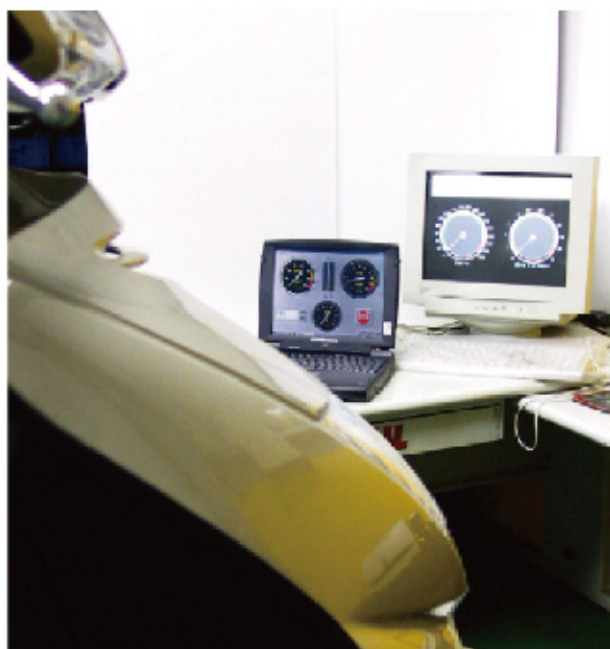
| YAMAHA   | Yellow/Black  | BUELL   | Ground      |
|----------|---------------|---------|-------------|
| HONDA    | Yellow/Green  | CAGIVA  | Gray/Green  |
| SUZUKI   | Yellow / Blue | DUCATI  | Gray/Green  |
| KAWASAKI | Light Blue    | H-D     | Pink        |
| APRILIA  | Gray / Violet | MV      | Gray/Yellow |
| BMW      | Black         | TRIUMPH | Red         |
| BENELLI  | Gray/Violet   |         |             |

**NOTE** The color listed above may differ depending on the model.

Fuel Indicator wiring reference:

| YAMAHA   | Green         | KYMCO | Yellow/White |
|----------|---------------|-------|--------------|
| HONDA    | Yellow/White  | SYM   | Yellow/White |
| SUZUKI   | Yellow/White  | PGO   | Gray         |
| KAWASAKI | Black/L Green |       |              |

⚠ The fuel sensor is electronic type, please don't parallel connection with the original- otherwise the fuel gauge won't display. **The wrong installation of the fuel wiring may cause the meter break.**



### RPM sensor

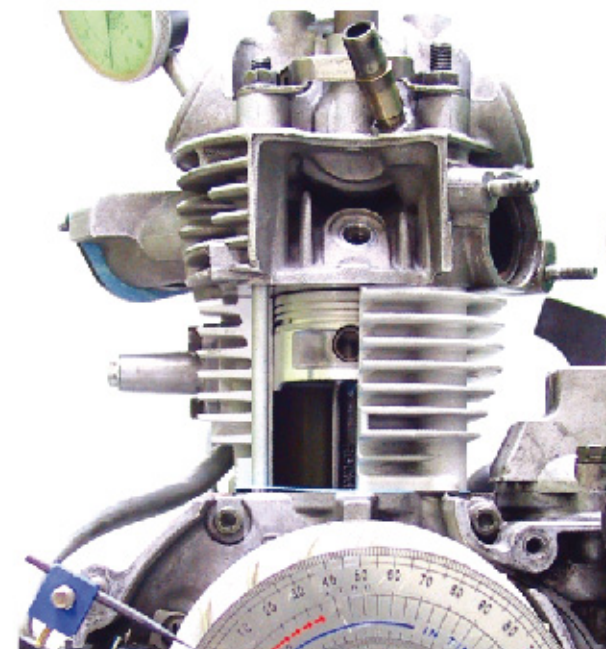
## INSTRUCTIONS

For the models comes with the new ignition coil, please wrap the RPM wire at least 5 times around the spark plug as the above drawing.

For the model with the normal coil with spark plug wire, please wrap the sensor wire around 3-5 times on the spark plug wire to get the signal.

If you can't catch a good signal (EX. the meter stopped counting the time after some times) from the spark plug wire, you could also try the 3 different methods showed to get a better signal, too.

For the model comes with the new ignition coil (the type without the spark plug wire), please follow the above 3 methods showed on drawing E to catch the signal.



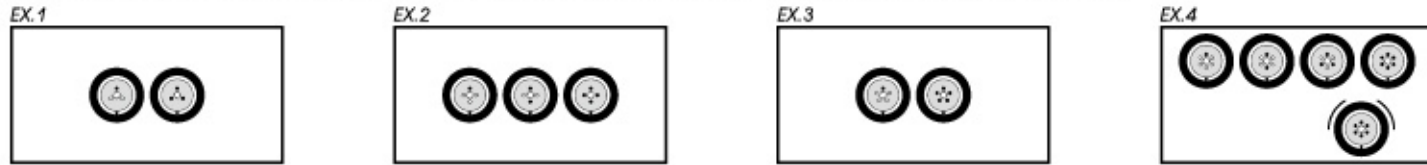
# SPEED SENSOR

## Passive speed sensor instruction

The more magnet sensor points are, the less the display interval is. when installing the magnet, please put the magnet with N-mark side face the outside and put them averagely to avoid wrong signal.

- EX. 1 If your disk has 3 screws, you could install 1 or 3 magnets to catch the speed.
- EX. 2 If your disk has 4 screws, you could install 1-2 or 4 magnets to catch the speed.
- EX. 3 If your disk has 5 screws, you could install 1 or 5 magnets to catch the speed.
- EX. 4 If your disk has 6 screws, you could install 1-2 -3 or 6 magnets to catch the speed.

After finishing the magnet installation and sensor point setting, please move your tire to test the speedometer work or not.



**Passive speed sensor**

| A. SH-01 |             | B. SH-01 |             |
|----------|-------------|----------|-------------|
| Length   | Item number | Length   | Item number |
| 900mm    | *BF019J00*  | 900mm    | *BF019D00*  |
| 1,150mm  | *BF019J01*  | 1,150mm  | *BF019D01*  |
| 1,350mm  | *BF019J02*  | 1,350mm  | *BF019D02*  |
| 1,550mm  | *BF019J04*  | 1,550mm  | *BF019D04*  |
| 1,750mm  | *BF019J05*  | 1,750mm  | *BF019D05*  |
| 2,000mm  | *BF019J06*  | 2,000mm  | *BF019D06*  |
| 4,000mm  | *BF019J07*  | 4,000mm  | *BF019D07*  |

**Reed speed sensor ( FOR EX Series )**

| Length | Item number |
|--------|-------------|
| 1450mm | *BF200000*  |

**Reed petal speed sensor ( FOR DB02 )**

| Length | Item number |
|--------|-------------|
| 1450mm | *BF650J02*  |

## Active speed sensor instruction

The active speed sensor could be installed by the metal parts to detect the speed.

- EX. 1 The disc screw.
- EX. 2 The disc to detect the disc gap. (Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)
- EX. 3 The sprocket to detect the disc gap. (Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)

We will suggest you to catch the speed from the disc screws. The more the sensor points are, the better the speed accuracy is. The maximum sensor points the speed sensor could detect is 60 points per turn.



**Active speed sensor**

| A. SA-01 (water-proof connector) |             | B. SA-01 (3 Pin connector) |             |
|----------------------------------|-------------|----------------------------|-------------|
| Length                           | Item number | Length                     | Item number |
| 900mm                            | *BF570J00*  | 900mm                      | *BF570D00*  |
| 1,150mm                          | *BF570J01*  | 1,150mm                    | *BF570D01*  |
| 1,350mm                          | *BF570J02*  | 1,350mm                    | *BF570D02*  |
| 1,550mm                          | *BF570J04*  | 1,550mm                    | *BF570D04*  |
| 1,750mm                          | *BF570J05*  | 1,750mm                    | *BF570D05*  |
| 2,000mm                          | *BF570J06*  | 2,000mm                    | *BF570D06*  |
| 4,000mm                          | *BF570J07*  | 4,000mm                    | *BF570D07*  |

**Active speed sensor**

| A. SA-07 (water-proof connector) |             | B. SA-07 (3 Pin connector) |             |
|----------------------------------|-------------|----------------------------|-------------|
| Length                           | Item number | Length                     | Item number |
| 900mm                            | *BF640J00*  | 900mm                      | *BF640D00*  |
| 1,150mm                          | *BF640J01*  | 1,150mm                    | *BF640D01*  |
| 1,350mm                          | *BF640J02*  | 1,350mm                    | *BF640D02*  |
| 1,550mm                          | *BF640J04*  | 1,550mm                    | *BF640D04*  |
| 1,750mm                          | *BF640J05*  | 1,750mm                    | *BF640D05*  |
| 2,000mm                          | *BF640J06*  | 2,000mm                    | *BF640D06*  |
| 4,000mm                          | *BF640J07*  | 4,000mm                    | *BF640D07*  |

**NEW !**

| A. SA-09 (water-proof connector) |             |
|----------------------------------|-------------|
| Length                           | Item number |
| 1,350mm                          | *BF642000*  |

**ACCESSORY**

## SPEED SENSOR & ACCESSORY

NEW !



### GPS Speed signal converter kit

Item number

\*KK0000001\*

### GPS Speed signal converter only

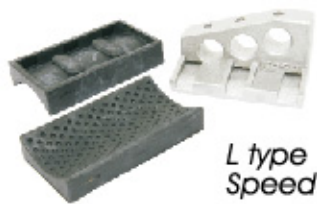
Item number

\*KK0000000\*

### GPS transmitter only

Item number

\*BF018000\*



### L type Speed sensor bracket

sensor Item number

R20 \*B1003500\*

R20I25 \*B1003501\*



### S type Speed sensor bracket

Size Item number

M8 \*B1002508\*

M10 \*B1002510\*



### Sprocket magnet screw

sensor Item number

M6 X P1.0 X 16.5L \*BF010620\*

M6 X P1.0 X 14L \*BF010640\*

M6 X P1.0 X 19.6L \*BF010650\*

M6 X 7.6L \*BF010660\*



### Disc magnet screw

sensor Pcs. Item number

5/16 X P18 X 18.25L 1 \*BF010500\*

M5 X P0.8 X 12L 1 \*BF010510\*

M8 X P1.25 X 29L 1 \*BF010800\*

M8 X P1.25 X 29L 2 \*BF010811\*

M8 X P1.25 X 22.5L 1 \*BF010820\*

M8 X P1.25 X 27.5L 1 \*BF010830\*

M6 X P1.0 X 24L 1 \*BF010600\*

M6 X P1.0 X 19.7L 1 \*BF010611\*

M6 X P1.0 X 12.6L 1 \*BF010630\*



### Magnet

Size Pcs. Item number

D6 X 5 mm 3 \*BF010700\*

D9 X 2.5 mm 1 \*BF010701\*

D10 X 3 mm 1 \*BF010702\*

D15 X 5 mm 1 \*BF010703\*

D6 X 5 mm 1 \*BF010704\*

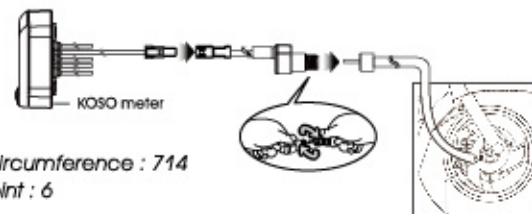


### Magnet & E ring

Size Item number

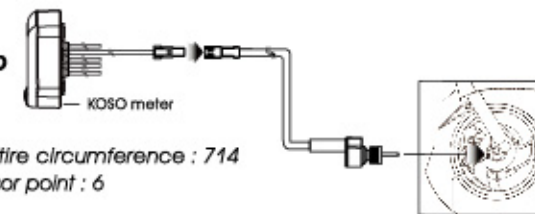
D11 X 6.5 mm \*BF018000\*

TYPE A-C



- The tire circumference : 714
- Sensor point : 6

TYPE D



- The tire circumference : 714
- Sensor point : 6

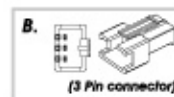


### Speed sensor (for Triumph BMW)

Model Item number

A. 900 mm \*BF190000\*

B. 900 mm \*BF190010\*

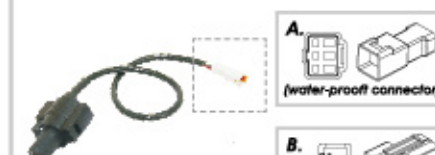
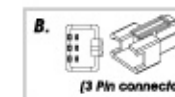


### Speed sensor (for BMW)

Model Item number

A. 900 mm \*BF584000\*

B. 900 mm \*BF584010\*

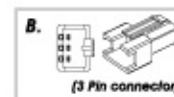


### Speed signal converter A

Model Item number

SR.X-FIGHT.BOOSTER A \*BF701001\*

SR.X-FIGHT.BOOSTER B \*BF701000\*



### Speed signal converter B

Model Item number

A.Runner \*BF801001\*

B.Runner \*BF801000\*

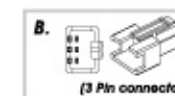


### Speed signal converter C

Model Item number

A.SC-01 \*BF580011\*

B.SC-01 \*BF580001\*



### Speed sensor (for Triumph BMW)

Model Item number

A.SC-51 \*BF580010\*

B.SC-51 \*BF580000\*



NEW !

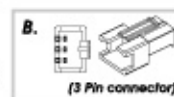


### Analog to digital signal converter

Model Item number

A \*BF582000\*

B \*BF582002\*



## LAMBDA SENSOR & ACCESSORY



Active Bosh O<sup>2</sup> Sensor

Item number

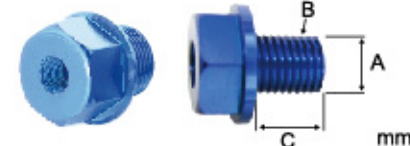
\* B 0 0 0 2 0 0 5 \*



Race type O<sup>2</sup> Sensor

Item number

\* B 6 0 0 0 5 0 1 \*



Temperature sensor adapter

| A                 | B                   | C | Item number |
|-------------------|---------------------|---|-------------|
| M12 x P1.5 x 15L  | * B 6 2 4 1 2 1 5 * |   |             |
| M14 x P1.25 x 15L | * B 6 2 4 1 4 1 2 * |   |             |
| M14 x P1.5 x 15L  | * B 6 2 8 1 4 1 5 * |   |             |
| M16 x P1.5 x 15L  | * B 6 3 0 1 6 1 5 * |   |             |
| M18 x P1.5 x 15L  | * B 6 3 0 1 8 1 5 * |   |             |
| M20 x P1.0 x 15L  | * B 6 3 0 2 0 1 0 * |   |             |
| M20 x P1.5 x 15L  | * B 6 3 0 2 0 1 5 * |   |             |



O<sup>2</sup> Sensor adaptor screw kit

Item number

\* B 0 0 0 2 0 0 2 \*

\* B 0 0 0 2 0 0 6 \*



Wide band O<sup>2</sup> Sensor

Item number

\* B 0 0 0 2 0 0 4 \*



Temperature sensor

0~250°C (With water-proof connector)

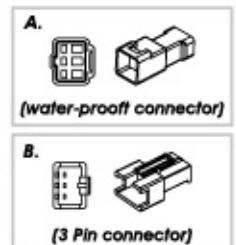
| Size        | Item number         |
|-------------|---------------------|
| PT 1/8 X 28 | * B F 0 3 0 0 0 0 * |
| PT 3/8 X 19 | * B F 1 3 0 0 1 0 * |
| M10 X P1.0  | * B F 1 0 0 0 0 0 * |
| M10 X P1.25 | * B F 1 0 0 0 0 1 * |
| M12 X P1.5  | * B F 1 2 0 0 0 0 * |
| M14 X P1.25 | * B F 1 4 0 0 0 0 * |
| M14 X P1.5  | * B F 1 4 0 0 0 1 * |
| M16 X P1.5  | * B F 1 6 0 0 0 0 * |
| M18 X P1.5  | * B F 1 8 0 0 0 0 * |



Temperature sensor

0~150°C

| Size        | Item number         |
|-------------|---------------------|
| PT 1/8 X 28 | * B F 1 2 0 1 2 5 * |
| M10 X P1.0  | * B F 1 0 0 1 0 0 * |
| M10 X P1.25 | * B F 1 0 0 1 2 5 * |
| M12 X P1.5  | * B F 1 2 0 1 2 5 * |
| M14 X P1.25 | * B F 1 4 0 1 2 5 * |
| M14 X P1.5  | * B F 1 4 0 1 5 0 * |
| M16 X P1.5  | * B F 1 6 0 1 5 0 * |
| M18 X P1.5  | * B F 1 8 0 1 5 0 * |



O<sup>2</sup> Signal extension wire

Model

Item number

A.

\* B 0 0 0 2 0 0 1 \*

B.

\* B 0 0 0 2 0 0 3 \*



Water temp adapter  
(With Temperature sensor)

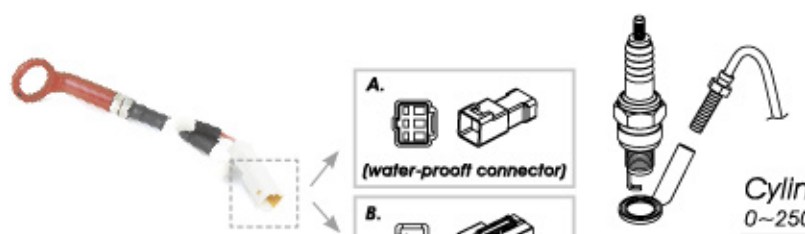
| Size  | Item number         |
|-------|---------------------|
| 14 mm | * B G 1 1 4 0 0 1 * |
| 16 mm | * B G 0 1 6 0 0 1 * |
| 18 mm | * B G 0 1 8 0 0 1 * |
| 22 mm | * B G 0 2 2 0 0 1 * |
| 26 mm | * B G 0 2 6 0 0 1 * |



Water temp adapter

| Size  | Item number         |
|-------|---------------------|
| 14 mm | * B G 1 1 4 0 0 0 * |
| 16 mm | * B G 0 1 6 0 0 0 * |
| 18 mm | * B G 0 1 8 0 0 0 * |
| 22 mm | * B G 1 2 2 0 0 0 * |
| 26 mm | * B G 1 2 6 0 0 0 * |

## TEMPER SENSOR & ACCESSORY



**Cylinder head temp sensor**  
0~250°C

| Size            | Item number |
|-----------------|-------------|
| <b>A.</b> 10 mm | K1001R11    |
| 14 mm           | K1001R15    |
| <b>B.</b> 10 mm | K1000R10    |
| 14 mm           | K1000R14    |

**A.** (water-proof connector)  
**B.** (3 Pin connector)




**EGT Sensor**  
200~1000°C

| Type  | Item number |
|-------|-------------|
| Sport | BFD00004    |




**EGT Sensor**  
200~1000°C

| Type | Item number |
|------|-------------|
| Race | BFD00005    |



**EGT Sensor clamp**

| Type  | Size     | Item number |
|-------|----------|-------------|
| Sport | 40-64 mm | B1520001    |
| Sport | 60-80 mm | B1520002    |

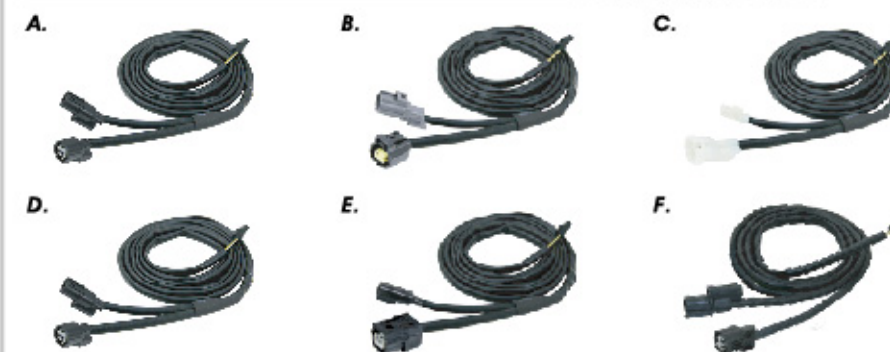


**EGT Sensor clamp**

| Type | Size     | Item number |
|------|----------|-------------|
| Race | 21-38 mm | B1520003    |
| Race | 40-64 mm | B1520004    |

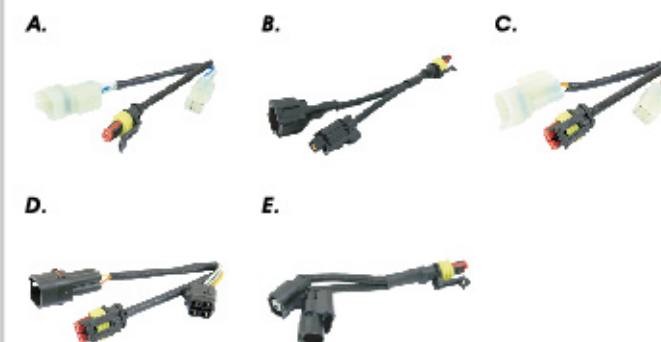
### Adapter wire for cylinder head temp

| Type   | Item number |
|--|-------------|
| <b>A.</b> YAMAHA - CYGNUS,BWS,GTR,MIO,NEW CUXI | B0003241    |
| <b>B.</b> YAMAHA - S-MAX                       | B0003243    |
| <b>C.</b> KYMCO - RACING 150,VJR,QUANNON       | B0003240    |
| <b>D.</b> SYM - RX 110 / HONDA - SCOOPY        | B0003242    |
| <b>E.</b> HONDA - PCX,VARIO                    | B0003244    |
| <b>F.</b> HONDA - MSX                          | B0003246    |



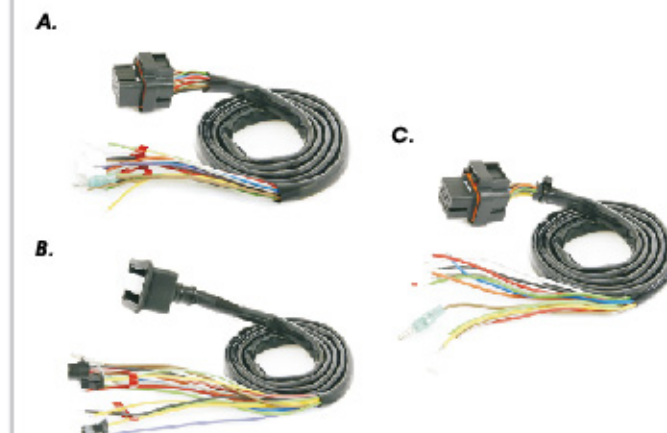
### Adapter wire for A/F ratio

| Type                             | Item number |
|----------------------------------|-------------|
| <b>A.</b> YAMAHA - CYGNUS,BWS,RS | B0003300    |
| <b>B.</b> YAMAHA - MIO,NEW CUXI  | B0003200    |
| <b>C.</b> SYM & KYMCO            | B0003201    |
| <b>D.</b> SUZUKI - V125          | B0003202    |
| <b>E.</b> HONDA - PCX,GROM       | B0003203    |



### Main wire

| Model               | Item number |
|---------------------|-------------|
| <b>A.</b> RX2N      | B0015000    |
| <b>B.</b> RX2N, RX2 | B0011000    |
| <b>C.</b> DB-01R    | B0018000    |



## WIRE HARNESS

**Temp Sensor wire set (JST TYPE)**

| Size   | Item number |
|--------|-------------|
| 105 mm | *B00001001* |

**Temp Sensor wire set**

| Size | Item number |
|------|-------------|
| 1 M  | *B00001001* |
| 2 M  | *B00002001* |

**RPM wire set (Type A)**

| Item number |
|-------------|
| *B0001A00*  |

**RPM wire set (Type B)**

| Item number |
|-------------|
| *B0001B00*  |

**RPM wire set (Type A)**

| Item number |
|-------------|
| *B0001A01*  |

**RPM wire set (Type B)**

| Item number |
|-------------|
| *B0001B01*  |

**RPM wire set (Type A)**

| Item number |
|-------------|
| *B0001A02*  |

**RPM wire set (Type C)**

| Item number |
|-------------|
| *B0001C00*  |

**Speed sensor extension wire set**

| Size   | Item number |
|--------|-------------|
| 100 mm | *B0005000*  |

**Shift light**

| Size   | Item number |
|--------|-------------|
| D48 mm | *B0000000*  |
| D55 mm | *B0000000*  |

**Battery box**

| Size      | Item number |
|-----------|-------------|
| UNIVERSAL | *B0001000*  |

**Connect terminal**

| Item number |
|-------------|
| *B0001R00*  |

## CHARGER & SWITCHES

**Fog light switch (For 7/8 & 1 inch)**

| Type      | Item number |
|-----------|-------------|
| Handlebar | *KB002000*  |

**External extension button**

| Size        | Item number |
|-------------|-------------|
| water-proof | *B0002001*  |

**USB Charger (2A)**

| Automatic power off | Item number |
|---------------------|-------------|
| 11.5 V              | *K0009000*  |

**NEW !**

**CNC Dual buttons switch (For 7/8 & 1 inch)**

| Connector                | Item number |
|--------------------------|-------------|
| A. water-proof connector | *K0007000*  |
| B. 3 Pin connector       | *K0007010*  |
| no connector             | *K0007020*  |

**Fog light switch (For Aurora LED Fog Light)**

| Size                     | Item number |
|--------------------------|-------------|
| For Aurora LED Fog Light | *B0006000*  |

**CNC USB charger holder**

| Color | Item number |
|-------|-------------|
| Black | *A0001K00*  |
| Red   | *A0001R00*  |

**CNC switch (For 7/8 & 1 inch)**

| Connector                | Type         | Item number |
|--------------------------|--------------|-------------|
| A. water-proof connector | A One button | *KB003000*  |
| B. 3 Pin connector       | B One button | *KB003010*  |

**Dual Port USB Charger (2A)**

| Automatic power off | Item number |
|---------------------|-------------|
| 11.5 V              | *K0008100*  |
| 12.5 V              | *K0008110*  |
| 12.5 V              | *K0008000*  |

for Harley-Davidson

**NEW !**

**Dual Port USB Charger support quick charge**

| Automatic power off | Item number |
|---------------------|-------------|
| 11.5V               | *K0012000*  |

## METER BRACKET



Meter bracket

| Model | Item number |
|-------|-------------|
| Rx2   | *BE010K00*  |



Meter bracket

| Model            | Item number |
|------------------|-------------|
| RX1N, 2N, XR-SRN | *BE011001*  |



Meter bracket

| Model       | Item number |
|-------------|-------------|
| XR-SR, XR-S | *BEATVK00*  |



Meter bracket

| Model          | Item number |
|----------------|-------------|
| EGT, DB-01 / R | *BE004K05*  |



Handle bar meter bracket

| Model                  | Handbar size | Item number |
|------------------------|--------------|-------------|
| RX1N,<br>2N,<br>XR-SRN | 7/8"         | *BE011K02*  |
|                        | 1 1/8"       | *BE003K00*  |



Meter bracket

| Model                | Item number |
|----------------------|-------------|
| XR-SR, XR-S, RS DYN0 | *BEATVK05*  |



Handle bar meter bracket

| Model                  | Handbar size | Item number |
|------------------------|--------------|-------------|
| RX1N,<br>2N,<br>XR-SRN | 7/8"         | *BEATVK02*  |
|                        | 1 1/8"       | *BE003K02*  |



Handle bar meter bracket

| Model             | Handbar size | Item number |
|-------------------|--------------|-------------|
| EGT,<br>DB-01 / R | 7/8"         | *BE018K00*  |
|                   | 1 1/8"       | *BE003K01*  |



Meter bracket (For TNT meter)

| Model     | Item number |
|-----------|-------------|
| TNT style | *BE035000*  |



Meter bracket (For D1 meter)

| Model         | Item number |
|---------------|-------------|
| 7/8" (22.2mm) | *BE032000*  |
| 1" (25.4mm)   | *BE032010*  |



Meter bracket (For switch)

| Model      | Item number |
|------------|-------------|
| Mini style | *BE000M01*  |



Meter bracket (For switch)

| Model      | Item number |
|------------|-------------|
| Mini style | *BE006S00*  |



D type meter bracket

| Model | Item number |
|-------|-------------|
| D48mm | *BE480001*  |
| D55mm | *BE550001*  |
| D64mm | *BE640001*  |



Handle bar meter bracket

| Model      | Handbar size | Item number |
|------------|--------------|-------------|
| Mini style | 7/8"         | *BE002K02*  |
|            | 1 1/8"       | *BE003K03*  |



Screw type  
Adjustable meter bracket

| Model | Item number |
|-------|-------------|
| D48mm | *BE480004*  |
| D55mm | *BE550004*  |
| D64mm | *BE640004*  |



Adhesive type  
Adjustable meter bracket

| Model | Item number |
|-------|-------------|
| D48mm | *BE480000*  |
| D55mm | *BE550000*  |
| D64mm | *BE640000*  |



V type meter bracket

| Model     | Item number |
|-----------|-------------|
| D48~55 mm | *BE480003*  |
| D64 mm    | *BE640003*  |



U type Meter bracket

| Model    | Item number |
|----------|-------------|
| D48mm    | *BE480002*  |
| D55mm    | *BE550002*  |
| D64mm    | *BE640002*  |
| For D102 | *BE555002*  |

## Heater Grip



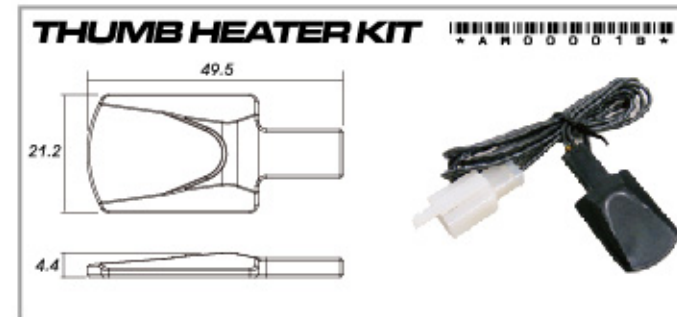
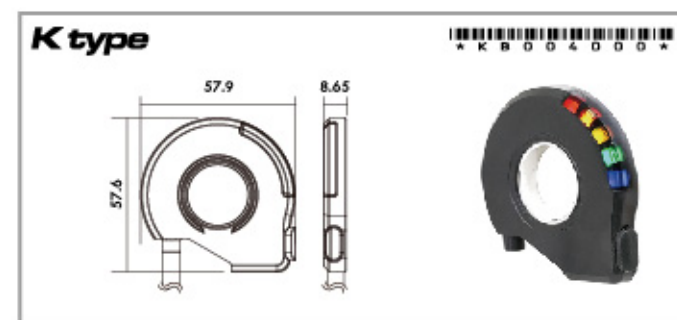
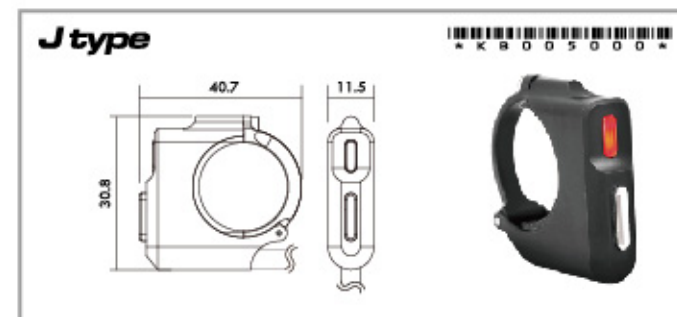
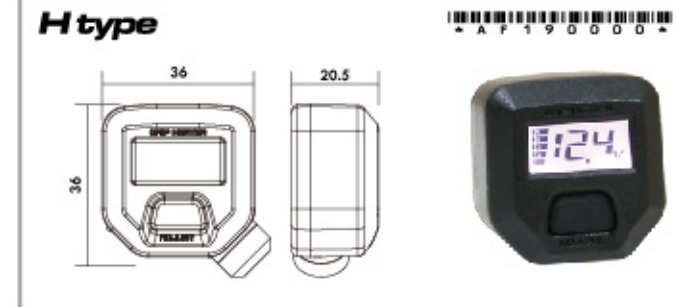
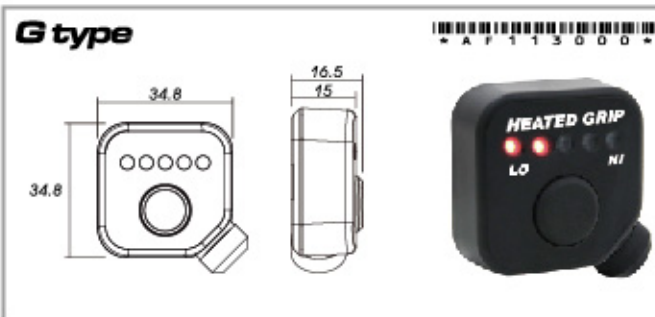
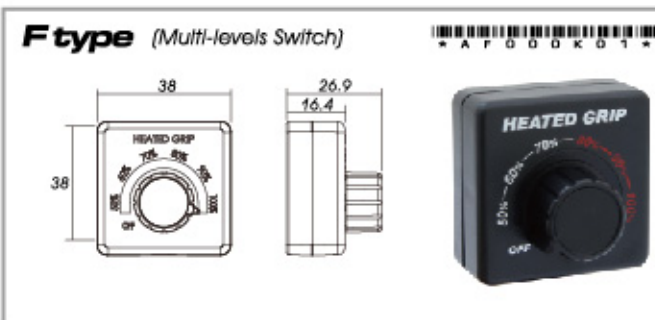
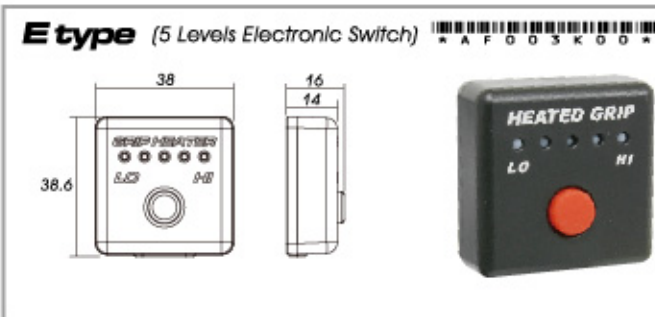
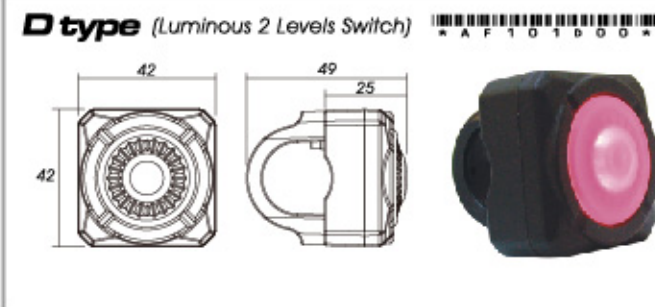
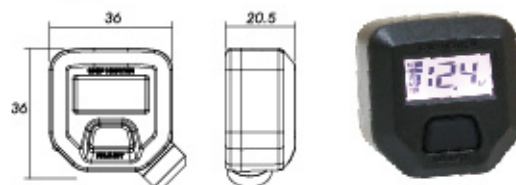
### THE LCD SWITCH FEATURES!

Instead of a simple switch, the new LCD switch could offer you the real time voltage information for you to monitor the bike battery condition all the time. Despite displaying the voltage, you could also make the setting to have a voltage warning when the voltage drop during the riding. With the LCD display, it will be easier for you to make different setting and notice the heater situation right away.

Of course – this is a heater switch, so we make more functions on the heater function, too. With the Quick Heater function, you could make the heater grip heat at full speed to reach your setting and then keep the temperature with your setting with the all the Quick Heat function on the new LCD switch.

The switch could work not only with the Koso heater grip but also most of the heater grips on the market! If you are not satisfied with the original switch from other suppliers, you could also take the chance to purchase the switch to experience the Koso product quality. We hope that this experience will bring you to purchase the Koso heater grip for you to have the chance to experience the total solution from Koso for the heater product!

### NEW! H type (Multi function Switch)





## Heater Grip

**HG-N3**



**HG-09**



**HG-N4**



**HG-11**



**HG-N5**



**HG-12**



**HG-07**



**HG-13**



**HG-08**



**TITAN**



**Bike**



**X-Glavs**



**Removable**



**Heated Gloves**



## Include Throttle Pipe & Adaptor

**HG-14**



**HG-15**



**SNOW / Dirt Bike**



## Heated Grips with Integrated Switch

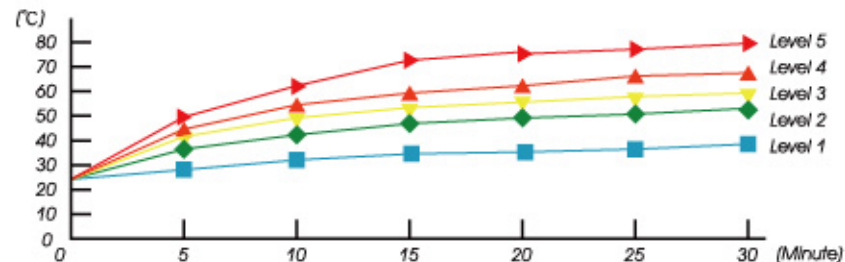


### The Integrated Switch Features!

Our integrated switch heated grips are designed with an integrated adjustable thumb switch, which allows them to easily fit most motorcycles on the market. The integrated thumb switch gives the opportunity to the rider to adjust the temperature level without removing his hands from the handlebar for a safer ride.

### Specification

- Low Battery Warning Activate Condition: When voltage lower than 11.5V and more than 5 seconds.
- Heating Output: Turn-Off
- Indicator: Purple Light Flashing
- Short Press During Warning: Temporary deactivate the warning.
- Short Press During Turn-Off: Purple light flashing 3 times and turn-off.



### HG-13 with Integrated Switch



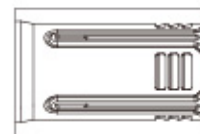
#### Size

7/8" + 1" L120mm  
7/8" + 1" L130mm

#### Item number

1 0 0 0 0 0 1 0  
+ A X 0 4 1 0 1 0 +  
1 0 0 0 0 0 1 0  
+ A X 0 4 1 1 1 0 +

### HG-13



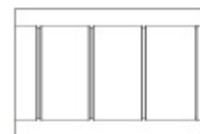
### TITAN

● For Harley-Davidson®

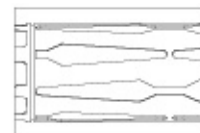


### TITAN-X

● For Harley-Davidson®

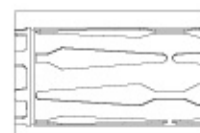


### APOLLO



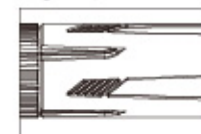
### APOLLO X

● For ATV & Snowmobile

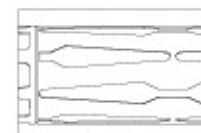


## Include Throttle Pipe & Adaptor

### HG-14



### HG-16



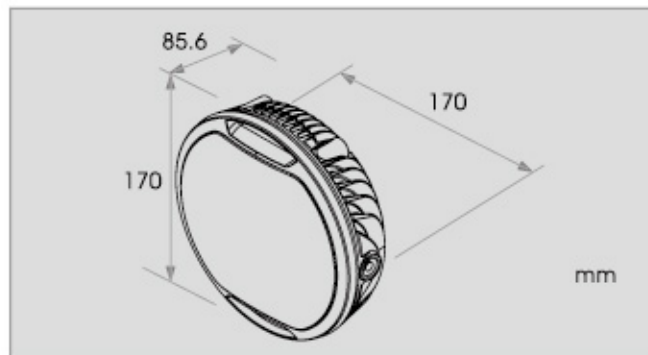
Heated Grips with Integrated Switch



# LED Headlight



**Body Size**

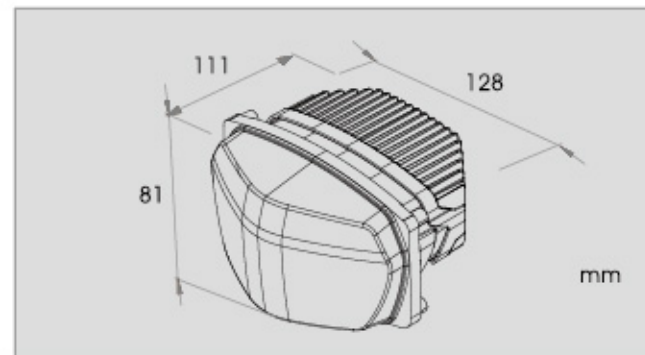


**Thunderbolt LED Headlight**

| Body Color | Lens  | Item number        |
|------------|-------|--------------------|
| Black      | Clear | * GA 0 0 2 0 0 0 * |



**Body Size**



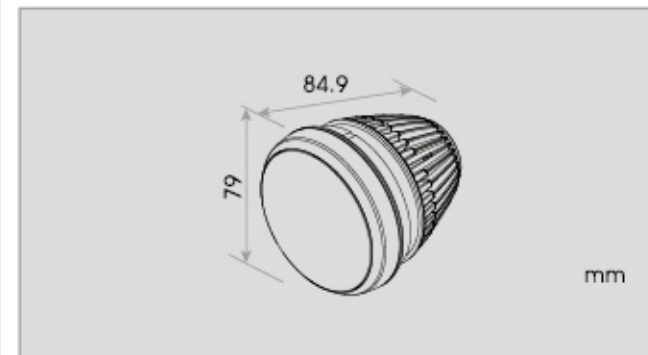
**LED Headlight**

| Body Color | Lens  | Item number        |
|------------|-------|--------------------|
| Black      | Clear | * GA 0 0 3 0 0 0 * |

**NEW !**



**Body Size**



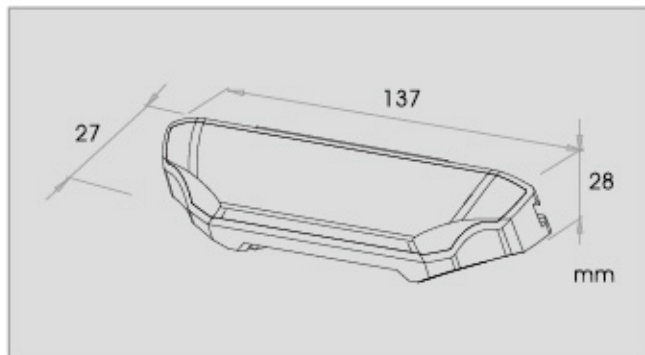
**Hawkeye LED Projector Headlight**

| Body Color | Lens  |           | Item number        |
|------------|-------|-----------|--------------------|
| Black      | Clear | Low Beam  | * GA 0 0 4 0 0 0 * |
| Black      | Clear | High Beam | * GA 0 0 5 0 0 0 * |

**LED LIGHT**



**Body Size**



**LED Daytime Running Light & Front Position Light**

| Body Color | Lens  | Item number       |
|------------|-------|-------------------|
| Black      | Clear | 1 H J 0 0 0 0 0 0 |

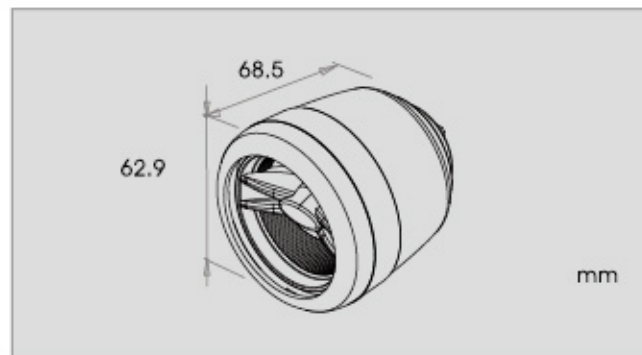


**Aurora LED Fog Light**

**NEW !**



**Body Size**

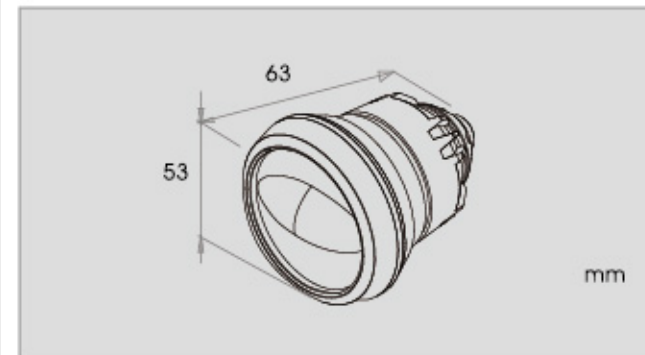


**Star fog light**

| Body Color | Lens  | pcs. | Accessories | Item number       |
|------------|-------|------|-------------|-------------------|
| Black      | Clear | 1    | Frame       | 1 H 6 0 0 9 0 0 0 |



**Body Size**



**Aurora fog light**

| Body Color | Lens  | pcs. | Accessories                          | Item number       |
|------------|-------|------|--------------------------------------|-------------------|
| Black      | Clear | 1    | Frame                                | 1 H 6 0 0 8 0 0 0 |
| Black      | Clear | 2    | Frame / Switch / DRL Mounting System | 1 H 6 0 0 8 0 0 1 |
| Black      | Clear | 1    | Switch / Switch                      | 1 H 6 0 0 8 0 1 0 |



**Body Size**

**Hawkeye**

| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Black      | Red   | * H B 0 3 4 0 0 0 * |
|            | Smoke | * H B 0 3 4 0 1 0 * |

**Body Size**

**Nano**

| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Black      | Red   | * H B 0 2 6 0 0 0 * |
| Black      | Smoke | * H B 0 2 6 0 1 0 * |

**Body Size**

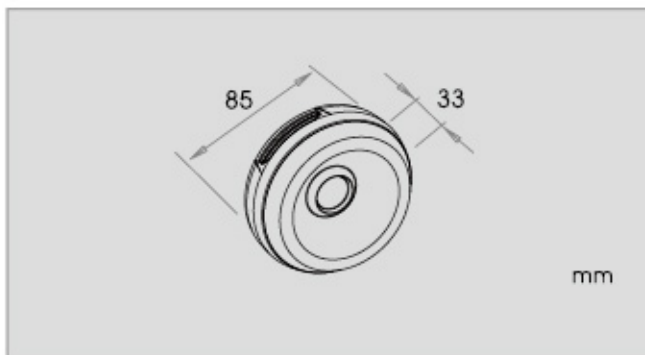
**Infinity**

| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Black      | Red   | * H B 0 2 5 0 1 0 * |
| Black      | Smoke | * H B 0 2 5 0 2 0 * |

NEW !



Body Size



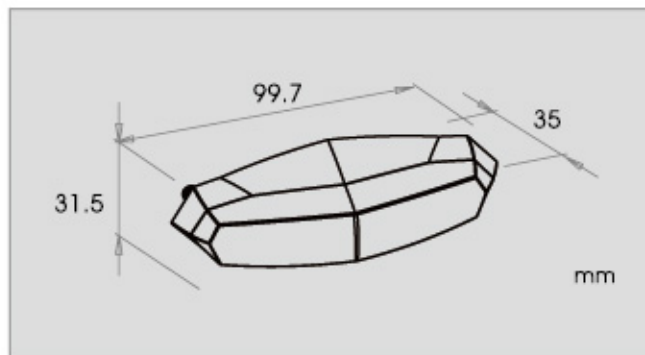
### Solar

| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Black      | Clear | * H B 0 3 5 0 0 0 * |
| Black      | Smoke | * H B 0 3 5 0 1 0 * |
| Black      | Red   | * H B 0 3 5 0 2 0 * |

NEW !



Body Size



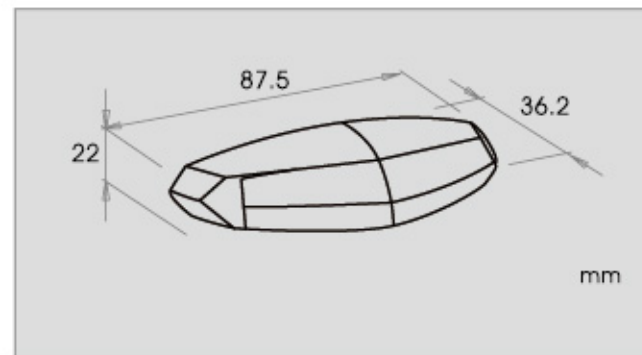
### Mini 2

| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Black      | Red   | * H B 0 3 7 0 0 0 * |
| Black      | Smoke | * H B 0 3 7 0 1 0 * |

NEW !



Body Size



### GT-01

| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Black      | Red   | * H B 0 3 1 0 0 0 * |
| Black      | Smoke | * H B 0 3 1 1 0 0 * |



# License Plate Light

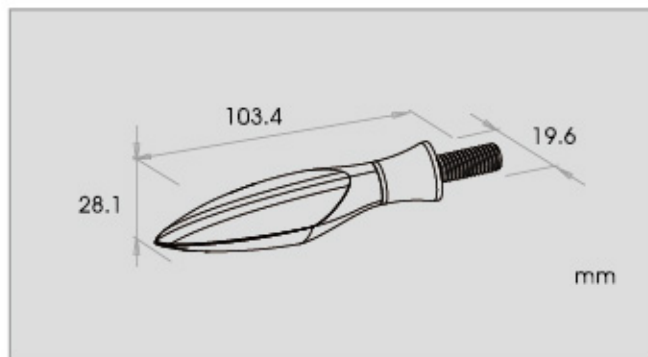




**Directional  
light**



Body Size

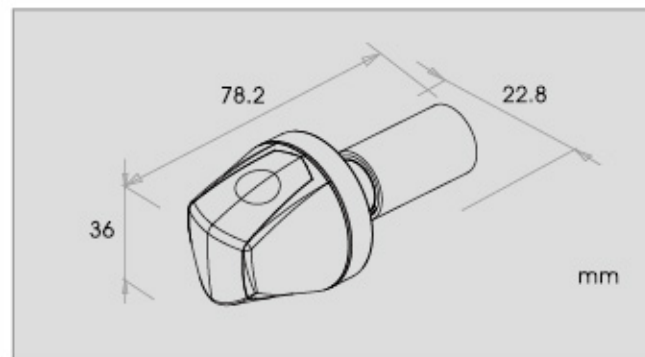


**Stinger**

| Body Color | Lens  | Item number |
|------------|-------|-------------|
| Black      | Clear | *HE100000*  |
| Black      | Smoke | *HE100010*  |



Body Size

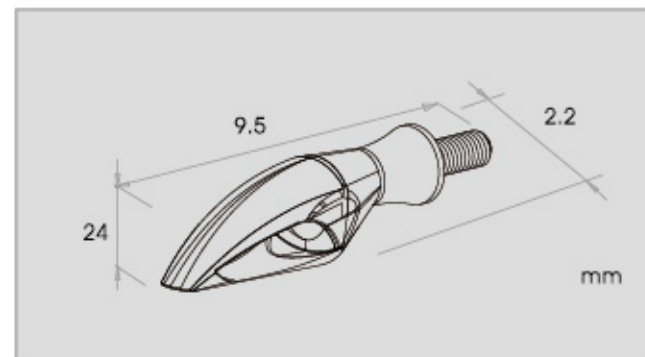


**Knight**

| Body Color | Lens               | pcs. | Item number |
|------------|--------------------|------|-------------|
| Black      | Clear              | 1    | *HE033000*  |
| Black      | Smoke              | 1    | *HE033010*  |
| Black      | Smoke (13/17/20mm) | 1    | *HE033012*  |
| Black      | Smoke              | 2    | *HE033013*  |



Body Size



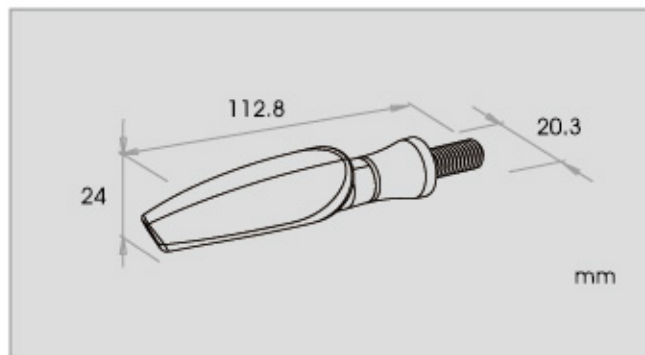
**Storm**

| Body Color | Lens  | pcs. | Item number |
|------------|-------|------|-------------|
| Black      | Clear | 1    | *HE034000*  |
| Black      | Clear | 2    | *HE034100*  |





Body Size

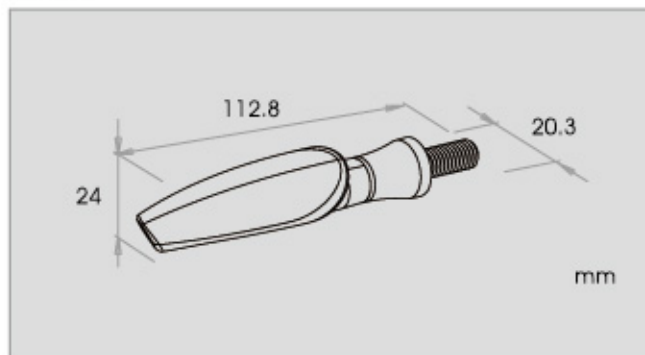


**Infinity**

| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Black      | Clear | * H E 0 3 0 0 0 0 * |
| Black      | Smoke | * H E 0 3 0 0 1 0 * |



Body Size



**Infinity-R (Winker/night & brake light)**

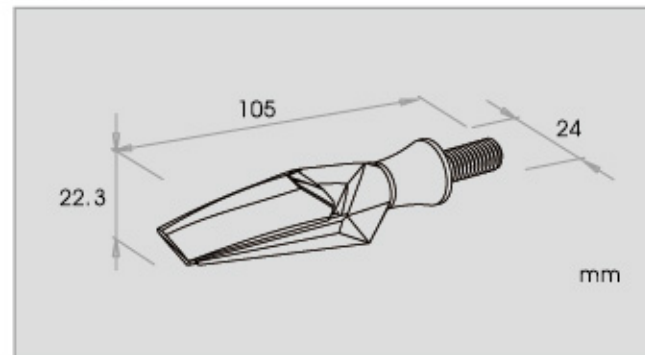
| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Black      | Smoke | * H B 0 3 0 0 1 0 * |

**Infinity-F (Winker & front position light)**

| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Black      | Clear | * H B 0 3 0 1 0 0 * |
| Black      | Smoke | * H B 0 3 0 1 1 0 * |



Body Size

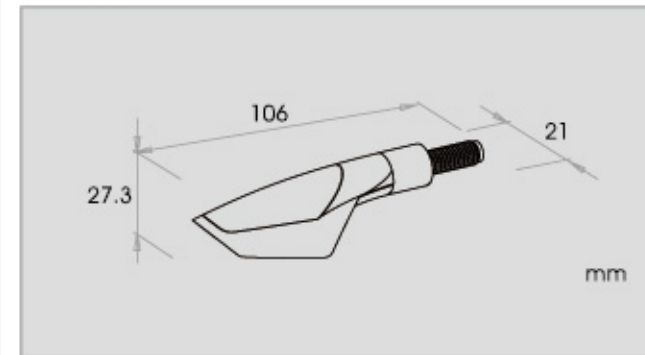


**Mars**

| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Black      | Clear | * H E 1 0 3 8 0 0 * |
| Black      | Smoke | * H E 1 0 3 8 1 0 * |
| Silver     | Clear | * H E 1 0 3 8 2 0 * |
| Silver     | Smoke | * H E 1 0 3 8 2 0 * |



Body Size



**Jet**

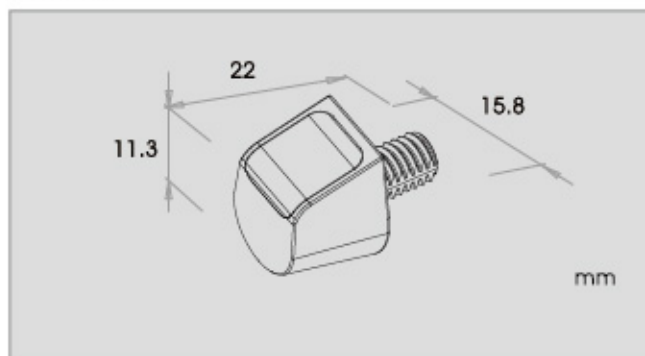
| Body Color | Lens  | Item number         |
|------------|-------|---------------------|
| Silver     | Clear | * H E 1 0 1 5 0 0 * |
| Black      | Clear | * H E 1 0 1 5 0 0 * |
| Black      | Smoke | * H E 1 0 1 5 0 0 * |
| Black      | Smoke | * H E 1 0 1 5 0 0 * |

## LED LIGHT

NEW!



Body Size



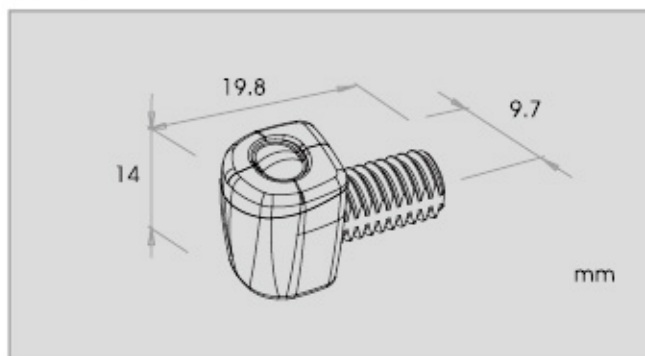
### Ion

| Body Color | Features           | Item number |
|------------|--------------------|-------------|
| Black      | Winker             | HE042000    |
| Black      | Winker & Taillight | HE042100    |

NEW!



Body Size

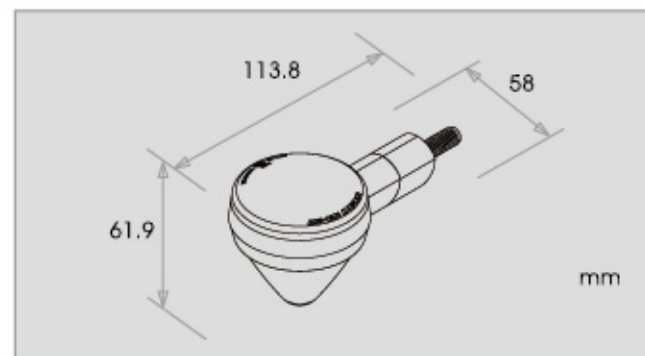


### Nano

| Body Color | Features           | Item number |
|------------|--------------------|-------------|
| Black      | Winker             | HE041000    |
| Black      | Taillight          | HE041200    |
| Black      | Winker & Taillight | HE041100    |



Body Size



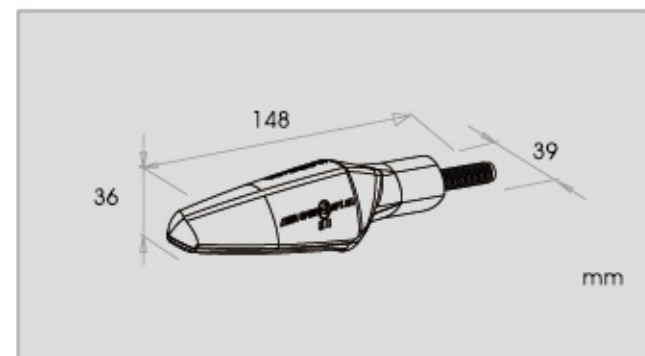
### Glare

| Body Color | Lens  | pcs. | Item number |
|------------|-------|------|-------------|
| Black      | Clear | 2    | HE031001    |
| Black      | Smoke | 2    | HE031011    |
| Black      | Amber | 2    | HE031021    |

NEW!



Body Size



### Arrow

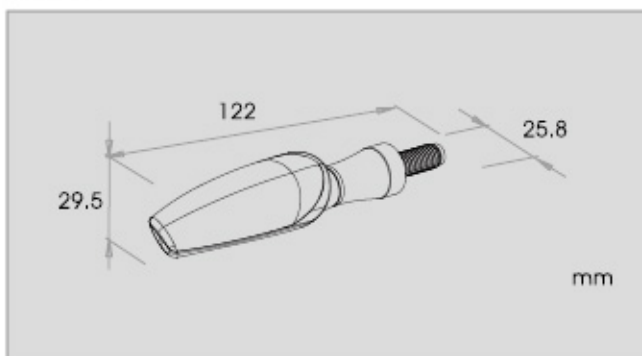
| Body Color | Lens  | Item number |
|------------|-------|-------------|
| Black      | Clear | HE032000    |
| Black      | Smoke | HE032010    |
| Black      | Amber | HE032020    |

## LED LIGHT

**NEW !**



**Body Size**



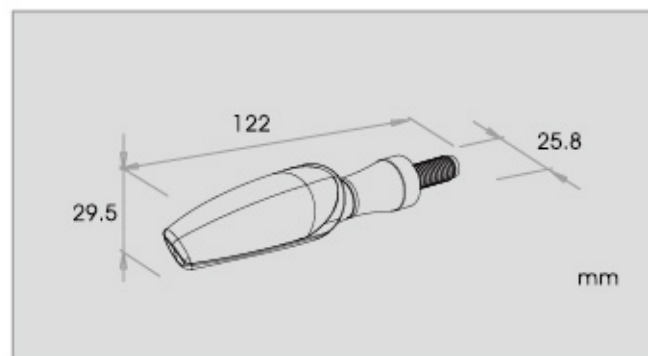
### Z2

| Body Color | Lens  | pcs. | Item number |
|------------|-------|------|-------------|
| Black      | Clear | 2    | *HE039000*  |
| Black      | Smoke | 2    | *HE039100*  |

**NEW !**



**Body Size**



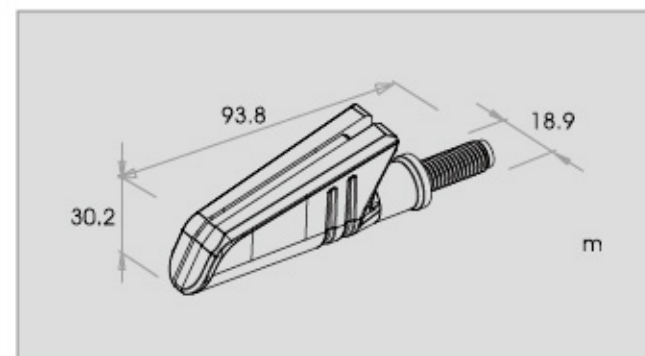
### Z3

| Body Color | Lens  | Item number |
|------------|-------|-------------|
| Black      | Clear | *HE039200*  |

**NEW !**



**Body Size**

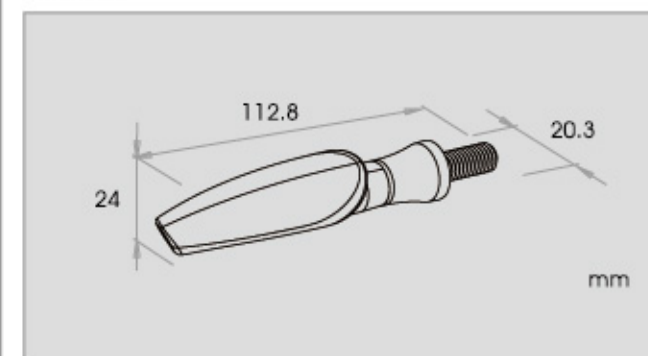


### Shadow

| Body Color | Lens  | Item number |
|------------|-------|-------------|
| Silver     | Clear | *HE043000*  |



**Body Size**



### Unlimited

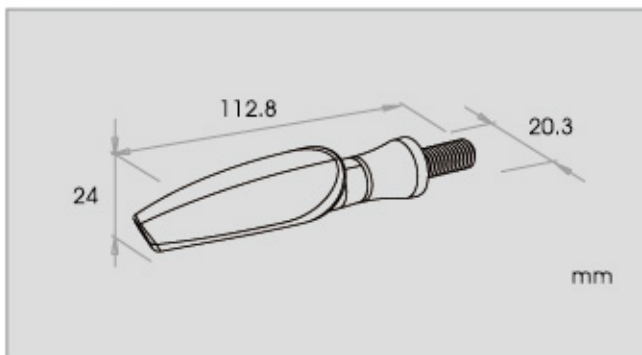
| Body Color  | Lens  | Item number |
|-------------|-------|-------------|
| Matte black | Clear | *HE015K10*  |
| Chrome      | Clear | *HE015M10*  |
| Silver      | Clear | *HE015S10*  |

## LED LIGHT

NEW!



Body Size



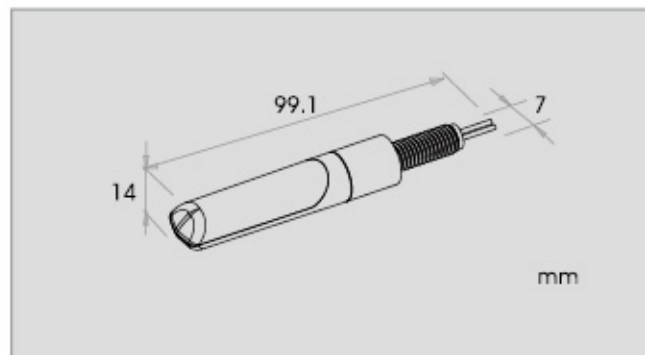
### Infinity-D (Dynamic LED Indicator)

| Body Color | Lens  | Item number |
|------------|-------|-------------|
| Black      | Clear | *HE040000*  |

NEW!



Body Size



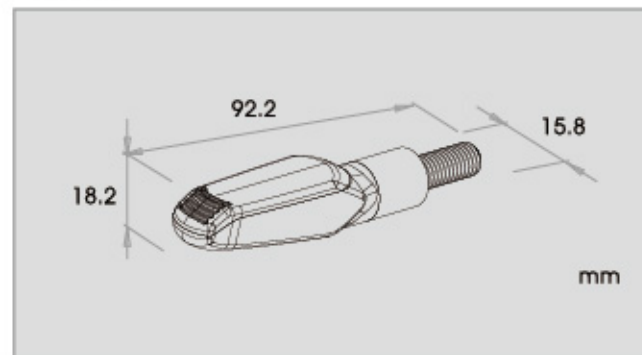
### Electro (Dynamic LED Indicator)

| Body Color | Lens  | pcs. | Item number |
|------------|-------|------|-------------|
| Black      | Clear | 1    | *HE037000*  |
| Black      | Smoke | 1    | *HE037010*  |
| Black      | Amber | 1    | *HE037020*  |

NEW!



Body Size



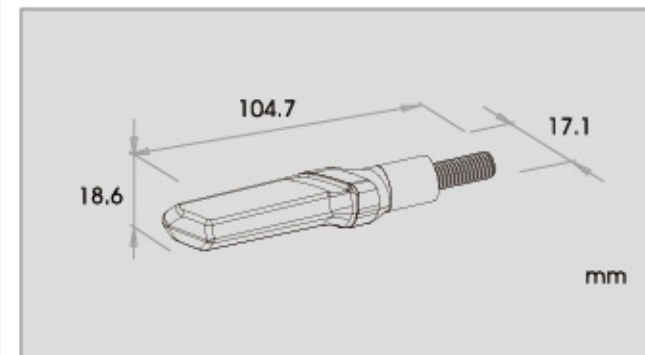
### GW-01

| Body Color | Lens  | Item number |
|------------|-------|-------------|
| Black      | Smoke | *HE036000*  |

NEW!



Body Size



### GW-02

| Body Color | Lens  | pcs. | Item number |
|------------|-------|------|-------------|
| Black      | Smoke | 2    | *HE044000*  |

## LED LIGHT

### Flasher relay feature

To give the normal flashing frequency to those bike adopting the LED light bulbs modification,

Totally plug & play, it's really easy to install.

Can be adopted by many different model of bike (please check the from below for the detail) Installing Instruction as below.



#### i Flash Relay

Type Item number

no sound version \*K D 0 0 6 0 4 0\*



#### LED Flash Relay

Type Item number

no sound version \*K D 0 0 6 0 0 0\*

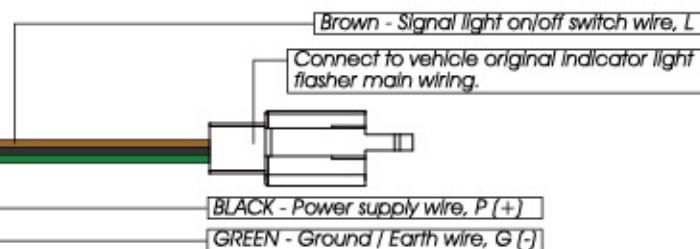


#### LED Flash Relay

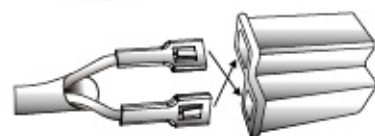
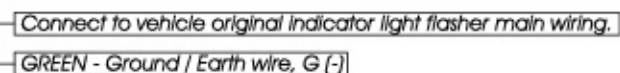
Type Item number

with blink sound \*K D 0 0 6 0 2 0\*

#### FOR 3-PIN



#### FOR 2-PIN



original indicator light flasher terminal

During installation, please follow the instructions below:

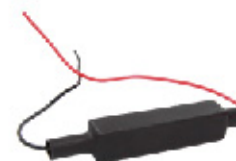
1. Before installation, locate and disconnect the vehicle original signal light interrupter terminal.
2. After disconnection, reconnect the terminals in opposite position.
3. After exchanging terminals position, connect the original indicator light flasher wiring to the LED flasher's L and P pins.



#### LED Flash Relay

Color Item number

Black Anodize \*K D 0 0 6 0 3 5\*



#### Resistor for LED

Turn Signal

Item number

\*K K 0 0 0 1 1 5\* 20w8.5Ω

\*K K 0 0 0 1 1 1\* 10w3Ω



#### TAILLIGHT BRACKET

Color Item number

Black Anodize \*B E 9 0 4 K 0 0\*

Silver Anodize \*B E 9 0 4 S 0 0\*



#### Directional light transfer gasket

Item number

\*H 0 6 2 3 X X X\*

• For Honda MSX

#### WINKER ADAPTER WIRE

Type Item number

A. KAWASAKI \*B 0 0 2 1 0 0 0\*

B. HONDA \*B 0 0 2 1 0 0 2\*

C. YAMAHA \*B 0 0 2 1 0 5 0\*

D. DUCATI \*B 0 0 2 1 0 6 0\*

E. HARLEY DAVIDSON \*B 0 0 2 1 0 7 0\*

F. TRIUMPH \*B 0 0 2 1 0 8 0\*

G. MV AUGUSTA \*B 0 0 2 1 0 9 0\*

H. YAMAHA MT-09 \*B 0 0 2 1 1 0 0\*

I. YAMAHA \*B 0 0 1 9 0 2 0\*

J. SUZUKI \*B 0 0 1 9 0 2 0\*

K. BMW \*B 0 0 1 9 0 3 0\*

L. YAMAHA \*B 0 0 1 9 0 5 0\*

#### LICENSE PLATE LIGHT ADAPTER WIRE

Type Item number

1. YAMAHA \*B 0 0 1 9 0 4 0\*

