

KOSO 
Feel The Speed

KOSO 

2018

2018

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SINCE 1981



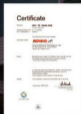
Tong Yah Electronic Technology Co., Ltd

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
- Electronics
- 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



Tensility tester



3D Printer

Plug & play

Harley-Davidson HD-01



NEW!



- Speedometer Display range : 0 – 360 km/h (0 – 225 MPH)
- Internal and external odometer Display range : 000000 – 999999km (mile)
Display unit : 1km (mile)
- Trip meter A · B Display range : 0000.0 – 9999.9 km (mile)
Display unit : 1km (mile)
- Tire circumference Setting range : 50 – 210%
- Gear meter Display range : off, highest gear, N and highest gear, show all (N1 – 6)
- Tachometer Display Range : 0 – 8,000 RPM
- RPM shift light Setting range : 2000 – 8000 RPM Warning lights on when exceed setting value (including)
- Max. RPM warning mode Setting range : F-Off (Lit.), F-ON (blink)
- Engine temperature Setting range : -40 – 215 °C (-40 – 419 °F)
120Ω · SWITCH · USER
- Fuel meter Display range : off, original fuel kit (PN 6120008A), Sportster fuel switch
- Average fuel consumption Display range : OFF · L/100km · km/L · MPG (US spec.) · MPG (UK spec)
- Clock Display range : 8 – 18V
- Voltmeter Setting range : 10 – 50%, when lower than (including) setting value, fuel level symbol will blink
- Backlight brightness Setting range : red, orange, yellow, green, blue, light blue, purple, white
- Mileage maintenance Setting range : Off, 500 – 16000 km (300 – 10000 mile)
- Operating voltage DC 12 V
- Indicator light RPM shift (Red) · Security (Red) · Low fuel warning (Yellow) · Engine warning (Yellow) · Low voltage warning (Red) · Constant speed (Orange / Green) · ABS (Yellow)

Item number
Weight color, Color range, Color



● S · A · 0 · 1 · 2 · 0 · 2 · +	● S · A · 0 · 1 · 2 · 0 · 2 · +
Blue 04-13 Chrome	Blue 04-13 Black
● S · A · 0 · 1 · 2 · 0 · 2 · +	● S · A · 0 · 1 · 2 · 0 · 2 · +
Blue 2014+ Chrome	Blue 2014+ Black

KOSO Harley Sportster Meter For 04-'13 / 2014+ Meter

Another great option for the Harley community is now available! You can customize your sportster with our high-quality plug & play meter that is equipped that is equipped with a 7 color changeable LCD display. Its stepper motor provides a precise and fast response so that you can get in-time information. 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, this is a great addition to your sportster.



Plug & play 2018

Plug & play

Harley-Davidson HD-02

Our R&D department worked very hard to create something new and modern for Harleys. The engineers finally came up with a complete plug & play solution to replace the stock meters. No need to drill holes or to rewire the meters, they will all fit directly on the OEM dash and connectors. Both silver and black bezel kits feature a 2 color changeable LCD display (red and blue) for a custom look. The 6 piece kit includes a 4" multifunction speedometer, 4" tachometer with gear position, 2" oil pressure meter, 2" fuel level meter, 2" volt meter, and the choice between a 2" oil temperature meter or a 2" ambient temperature meter. Want to enhance the look of your Harley? Koso has the plug & play solution for you!

Fit Harley-Davidson® FLHT, FLHX and FLTR from 2004 to 2013.



NEW!



● Digital tachometer	Display range: 0 – 9990 rpm
○ Tachometer	Display range: 0 – 8000 rpm
	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)	Ø94.7 X 55.8 mm
● Meter weight	
● Indicator light color	Cruise Control Light (Orange/Green) ABS Light (Yellow)

Rpm number
Average value, Color change, Count



Blue 0-8,000 Chrome Blue 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 2018

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.



008 / 009

NEW !



● Digital Speedometer	Display range: 0 – 299 km/h (0 – 199 mph) Display unit: 1 km/h (mph)
○ Speedometer	Display range: 0 – 200 km/h (0 – 120 mph) Display unit: About 4.2 km/h (2.5 mph)
○ Odometer	Display range: 000,000 – 999,999 km (mile) Display unit: 1 km (mile)
○ Trip meter A/B	Display range: 0000.0 – 9999.9 km (mile) Display unit: 0.1 km (mile)
● Clock	Display range: 12 H / 24 H Accuracy: +/- 4 seconds / Day
● Fuel	Display range: Fu-04 / Fu-08 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) Engine Light (Yellow) Gear Light (Green) Volt Light (Red) Anti-Theft Light (Red)

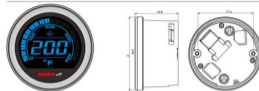
Item number: 008
Available color: Chrome, Clear



Item number: 008
Available color: Chrome, Clear

Blue 0–350 km/h Chrome Blue 0–350 km/h Black

NEW !



● Oil temperature	Display range: 0 – 400 °F Display unit: 1 °F or 1 °C
● Oil temp. warning	Setting range: 150 – 400 °F (70 – 199 °C) 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: 009
Available color: Chrome, Clear



Item number: 009
Available color: Chrome, Clear

Blue 0–400 °F Chrome Blue 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.



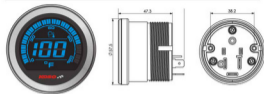
Plug & play 2018

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 instal, this meter is a great addition to all Harley's FLHT, FLHX and FLTR from 2004 to 2013.

NEW !



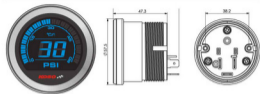
●Ambient temperature	Display range:0~120 °F
●Temperature alarm	Display unit:1 °F Setting range:15~65 °F Setting unit:1 °F
●Supply voltage	DC 12V
●Effective temperature range	-10~+60°C
●Meter standard	
●Meter size [D X H]	D57.5 X 47.3 mm
●Meter weight	

Item number
Backlight color, Scale range, Color



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

NEW !



●Oil press	Display range:0~60 PSI
●Oil press alarm	Display unit:1 PSI 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, Scale range, Color



Blue 0~120 °F Chrome Blue 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 instal, this meter is a great addition to all Harley's FLHT, FLHX and FLTR from 2004 to 2013.



010 / 011



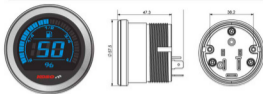
Plug & play 2018

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.

NEW !



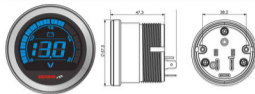
@Fuel meter	Display range:0~100%
@insufficient fuel warning	Display unit:1% Setting range:0~30% Setting unit:1%
@Supply voltage	DC 12V
@Effective temperature range	-10~+60°C
@Effective temperature range	JIS D 0203
@Meter standard	
@Meter size (D X H)	Ø57.5 X 47.3 mm
@Meter weight	

Item Number
Available color Supply range Setting



Blue 0~100% Chrome Blue 0~100% Black

NEW !



@Volt meter	Display range:8.0~16.0V
@Volt warning	Display unit:0.1V 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)	Ø57.5 X 47.3 mm
@Meter weight	

Item Number
Available color Supply range Setting



Blue 8.0~16.0V Chrome Blue 8.0~16.0V 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.



Plug & play

Harley-Davidson HD-03

Following the great reviews we received from Harley enthusiasts, we have decided to release the updated Beggars meter kit for touring models 2014 and up. This plug & play kit from Koso is now available to replace stock meters without any hassle! There is no need to drill holes or to rewire the meters, they will fit directly on the OEM dash and connectors. The kit features a dual color changeable LCD display (red and blue) for a custom look to fit your motorcycle. The HD-03 kit includes a multifunction speedometer, tachometer, oil temperature meter, and a fuel level meter. If you're looking to enhance the look of your Harley, Koso has the plug & play solution for you!

Fit Harley-Davidson® FLHX, FLTC and FLTR from 2014 to 2017.



NEW!



- Speedometer Display range : 0 – 299 km/h [0 – 199 MPH] switchable
- Overspeed warning Setting range : 30 – 299 km/h (19 – 199 MPH) setting 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)
- Mileage 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 - 1/100km - 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 RANG" and flashing as warning when RANGE / 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 JS D 0203 (S2)
- Indication light Turn signal (Green) Water temperature (Blue)
- Photometric Sensing Warning Light (Orange/Green)
- Oil (Red)
- Engine warning (Yellow)
- Constant speed (Orange / Green)
- Security (Red)
- High beam (Blue)
- Fog Light (Green)
- ABS (Yellow)
- Turn signal (Green)



Item number: 999999999999
Assign color: Change range: Custom

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 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.



Plug & play 2018

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.



- 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**
- Display range : User settings (500 ~ 16000km / 300 ~ 10000 mile) ~ 999 km (mile) - decrease according to the increase in total mileage.
 - Display unit : 1 km (mile)
- Clock**
- Display range : 12 / 24hour format
 - Engine temp.
 - Display range : -30 ~ 225 °C (-22 ~ 437 °F)
 - Max. RPM
 - Display range : 0 ~ 8,000 RPM
 - Display unit : 100 RPM
 - Max. temperature record
 - Display range : -30 ~ 225 °C (-22 ~ 437 °F)
 - Display unit : 0.1 km (mile)
 - 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



Blue 0-360kmh Chrome

Blue 0-360kmh Black

- Speedometer Display range : 0 - 360 km (0 - 225 mile)
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)
Display unit : 1 km (mile)
- Speedometer Display range : 0 - 999,999 km (mile)
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)
Display range : 0 - 9999.9 km (mile)
- Fuel reserve tripmeter Display range : 0 - 9999.9 km (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
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 light, 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)
- Fuel meter Display range : (ON) - (OFF) - Flash
- Clock Setting range : 12 / 24 hour format
- 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 6203 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)



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 mode 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: 0 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)



Warm number
 Average value, Stable stage, Heat color



● Speedometer	Display range: 0 – 360 km/h (0 – 225 MPH) Display unit: 1 km/h (MPH)
● Odometer	Display range: 00000 – 99999 km (mile) Display unit: 1 km (mile)
● Trip meter A/B	Display range: 000.0 – 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) Display unit: 1 km/h (mp/h)
● Tire circumference	Setting range: 300 – 2,500 mm 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) Setting range: (No Gear Position has been recognized) – Gear 9 if applicable.)
● Acceleration	Display range: 0-2.0G for all 4 directions (Front, Rear, Right, and Left) Display unit: 0.1G
● Lean angle	Display range: 0 – 60° for both LH & RH side
● Tachometer	Display range: 0 – 10000 rpm / 12000 rpm / 15000 rpm / 18000 rpm / 20000 rpm Setting range: 1,000 – 15,000 RPM Setting unit: 100 RPM
● Max RPM record	Display range: 0 – 10000 rpm / 12000 rpm / 15000 rpm / 18000 rpm / 20000 rpm Setting range: 0.5, 1 – 24
● The RPM input signal number setting	Display range: 0 – 99999 H Display unit: 1H
● Hour meter A/B	Display range: 000.0 – 999.9 H Display unit: 0.1H
● Temperature record	Display range: 0 – 10000 rpm / 12000 rpm / 15000 rpm / 18000 rpm / 20000 rpm Setting range: 0.5, 1 – 24
● Fuel	Display range: 0 – 99999 H Display unit: 1H
● Insufficient fuel warning	Display range: 000.0 – 250.0 °C (32.0 – 482.0 °F) Display unit: 0.1 °C (°F) Display range: 0 levels Setting range: 0 – 120 °C (32 – 248 °F) Setting unit: 1°C (°F)
● Calendar	Display range: 2000 – 2099 Year Display range: 1 – 12 month Display range: 1 – 31 Day Display range: 1 – 7 (Monday - Sunday) Display range: 0.00 – 23.59 (24h)
● Clock	Display range: 0.00 – 23.59 (24h)
● Digital Volt meter	Display range: DC 8.0 – 18.0 V
● Level Volt meter	Display range: 0 levels
● Low voltage warning	Display range: DC 8.0 – 18.0 V Display unit: 0.1 V
● Backlight brightness adjust	Setting range: 1-5(Darker) – 5-5(Brighter)
● Target speed timer	Setting unit: adding 20% each adjustment (5 segments) The record including: Speed: 0 – 360 km/h (0 – 225 mph) RPM: 0 – Depending on Current Set of RPM Display Range Timer: 0'00'00 – 9'59'99
● Target distance timer	The record including: Speed: 0 – 360 km/h (0 – 225 mph) RPM: 0 – Depending on Current Set of RPM Display Range Timer: 0'00'00 – 9'59'99
● Top speed timer	The record including: Speed: 0 – 360 km/h (0 – 225 mph) RPM: 0 – Depending on Current Set of RPM Display Range Timer: 0'00'00 – 9'59'99 Distance: 0 – 999.9 m (0 – 3280 ft)
● Supply voltage	DC 12V
● Inactive 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



D1-OLED

Our D1 meter is one of the first-starter-market gauge using the OLED technology! You can finally have more information on a super slim compact meter. Scroll through the numerous screens by simply pushing the external thumb switch. Built with advance technology that allows you to see the display from almost any angle, this D1-OLED meter is the perfect item for your unique custom bike.



Tachometer
 ● Display range: 0–10,000 RPM.
 ● Display unit: 100 RPM.

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



Speeding warning light



Temperature alarm

Item number
 Average color: 2446, 2447, 2448, 2449



Back

Option accessory



- 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 automatically after 99999.9 km (mile)
- Trip meter A/B Display range: 0–999.9 km (mile),
 reset automatically after 999.9 km (mile)
- Speeding warning Setting range: 30–360 km/h [19–225 MPH]
 Setting unit: 1 km/h (MPH)
- Tire circumference Setting range: 300–2,500 mm
 Setting unit: 1 mm. Sensitive point: 1–20
- Digital tachometer Display range: 0–20,000 RPM
 Display unit: 10 RPM
- Level tachometer Display range: 0–8,000 / 0–12,000 / 0–16,000 RPM
 Display unit: 8,000 RPM-Each level represents 500 RPM,
 12,000 RPM-Each level represents 500 RPM,
 16,000 RPM-Each level represents 1000 RPM
- The RPM shift Setting range: 1000–20,000 RPM
 Setting unit: 100 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 (water & oil temp.) Display range: 0.0–250.0°C [32.0–482°F], when
 the temp. ≥100, the decimal places will not display
 Setting unit: when temp. <100–0.1°C (°F);
 when temp. ≥100–1°C (°F)
- Temperature warning (water & oil temp.) Setting range: 60–250°C [140–482°F]
 Setting unit: 1°C (°F)
 When higher than the set value (included), the
 symbol will flashing as warning.
- Thermometer (air) Display range: -20.0–60.0°C [-4.0–140°F]
 When the temperature ≥100, the decimal
 places will not display.
 Display unit: When temp. <100–0.1°C (°F);
 When temp. ≥100–1°C (°F)
- Low temperature warning (air) Setting range: -10–20°C [14–68°F]
 Setting unit: 1°C (°F); When lower than the set
 value (included), the symbol will flashing as warning.
- Fuel level Display range: 6 levels.
 Display unit: Each level represents 16.6%
 Setting range: 100Ω, 250Ω, 510Ω, 1200Ω, SW
- Low fuel gauge warning Setting range: 0–3
 Setting unit: 1; When lower than the set
 value (included), the symbol will flashing as warning.
- Clock 24H
- Digital Volt meter Display range: DC 8–DC 18 V; Display unit: 0.1 V
- Low volt warning Setting range: DC 8.0–DC 18.0 V
 Setting unit: 0.1 V; When lower than the set
 value (included), the symbol will flashing as warning.
- Brightness Setting range: 1-5 (Darkest) – 5-5 (Brightest)
 Setting unit: 20% per level.
- Effective voltage DC 12V
- Effective temperature range -10–+60 °C
- Meter standard JIS D 0203 S2
- Meter size [W X L X H] 45.5 X 26.5 X 9.9 mm
- Meter weight Around 22.1 g
- Details
 - High beam (Blue)
 - L/R turn signal (Orange)
 - Neutral (Green)
 - Engine oil pressure light (Red)



RX1N+

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 speed 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 distance 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



Warm number
 Average color, Stable color, Heat color

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

Option accessory



●Speedometer	Display range: 0-360 km/h (0-225 MPH) Display unit: km/h & MPH for alternative
○Odometer	Display range: 0-9999.9 km (mile), reset reset automatically after 9999.9 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 (Water & oil temperature)	Display range: 0-120°C (32-248°F) Display unit: 0.1°C (°F)
○Level thermometer (Water & oil temperature)	Display range: 20-110°C (68-230°F), 10 levels Display unit: Each level represents 10°C (50°F)
○Over heat warning (Water & oil temperature)	Setting range: 60-120°C (140-248°F) Setting unit: 1°C (°F)
○Top temperature record (Water & oil temperature)	Display range: 0-120°C (32-248°F)
●Fuel meter	Display range: 10 levels Display unit: Each level represents 10 %
○Insufficient fuel warning	Setting range: 1000, 2500, 5100, 12000, SW 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: 0-9.99 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
●Belltales	<ul style="list-style-type: none"> ● Repeater (Green) N Neutral (Green) ● High beam (Blue) ● EOB (Amber) ● Oil (Red) ● Speeding (Red) ● RPM shift light (Yellow / Red)



RX2+

The RX-2 is probably one of our best seller. Its unique changeable backlight colors make it a very popular instrument. The illuminated needle with LED pointer make 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 rpm you reach and light on for 3 seconds.



Alarm number
 Average speed, Cruise control, Head light



Blue 0-15,000 RPM Block

Option accessory



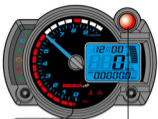
Kawasaki NINJA 250R Model: 8X2
 Plug & Play Kit Kawasaki NINJA 250R Model: 8X2
 Plug & Play Kit Kawasaki NINJA 250R(F) Model: 8X2

- Speedometer Display range: 0-360 km/h [0-225 MPH]
 Display unit: km/h & MPH for alternative
- Odometer Display range: 0-9999.9 km (mile), reset
 reset automatically after 9999.9 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]
 Setting range: 300-2,500 mm
 Setting unit: 1 mm-Sensor point: 20
- Tire circumference Setting range: 15,000 RPM
 Display range: 100 RPM
 Setting range: 1,000-15,000 RPM
 Setting unit: 100 RPM
- The RPM Red, Yellow shift light Light on (F-OFF)
 Flash (F-ON)
- MAX RPM record Display range: 0-15,000 RPM
 Setting range: 0.5, 1-24
- The RPM input signal number setting
- 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 (Water & oil temperature) Display range: 0-120°C (32-248°F)
 Display unit: 0.1°C (°F)
- Level thermometer (Water & oil temperature) Display range: 20-110°C (68-230°F), 10 levels
 Display unit: Each level represents 10°C (50°F)
- Over heat warning (Water & oil temperature) Setting range: 60-120°C (140-248°F)
 Display unit: 1°C (°F)
- Top temperature recorder (Water & oil temperature) Display range: 0-120°C (32-248°F)
 Display range: 10 levels
 Display unit: Each level represents 10 %
- Fuel meter Setting range: 1000, 2500, 5100, 12000, SW
 Setting range: 10-50 %
 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)
 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: 0-959⁹⁹ second.
- Effective voltage DC 12V
- Effective temperature range -10-+60°C
- Meter standard JS D 0203 S2
- Meter size (W X L X H) 184.75 X 105 X 49 mm
- Meter weight Around 305 g
- Features
 - N Neutral (Green)
 - ↔ Repeater (Green)
 - ⊖ Oil (Red)
 - ⊖ RPM shift light (Yellow / Red)
 - ⊖ High beam (Blue)
 - ⊖ EOCB (Amber)
 - ⊖ Speeding (Red)



RX2N+

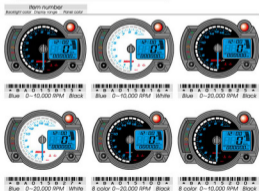
The RX-2N has been developed with the best components and latest technology on the market. The illuminated needle with LED pointer make's the RX-2N a very easy gauge to read even at night. This instrument features many different functions such as speed, odometer, tripmeter, RPM, shift light, temperature, 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.



Rpm number
 Average color, Shifts color, Free 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
 <0.5 second
- Display internal
- 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)
 Setting unit: 300–2,500 mm
- Tire circumference Setting unit: 1 mm - Pulse setting: 1–60
- Tachometer Display range: 0–10,000 /20,000RPM
 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 Display range: 0–250 °C (32–482 °F)
 (Water & oil temperature) 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
 <0.5 second
- Display internal
- Temperature alarm Setting range: 60–250 °C (140–482 °F)
 (Water & oil temperature) 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: 100Ω, 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: 0–99999 second.
- DC 12V
- Effective temperature range -10–+60°C
- Meter standard JS D 0203 S2
- Meter size (W X L X H) 135.7 X 100.7 X 52 mm
- Meter weight Around 240 g
- Voltages
 - High beam (Blue)
 - Neutral (Green)
 - Oil (Red)
 - RPM shift light (Yellow / Red)
 - Temperature alarm (Red)
 - Repeater (Green)
 - EOBD (Amber)
 - Speeding (Red)
 - Temperature alarm (Red)



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 <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: 100Q, 250Q, 510Q, 1200Q
○ 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
● Effective voltage	DC 12V
● 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
● Toggles	N Neutral (Green) ; H High beam (Blue) D Direction (Green) ; F Fuel (Yellow) O Oil (Red) ; EOR Engine (Amber)

Rem number
Backlight color: Green range - Panel color



Blue
0-2-7-0-0-0-0
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	Display range: Metric Unit: 500(-8,000 km, user adjustable) - mileage -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: 0-360 km/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 - 0-15,000 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: to-Act, Hi-Act
○ Hour meter A - B	Display range: 0-9,999.9 hour
● Fuel level	Setting range: 100Q - 250Q - 270Q - 510Q - 1200Q - 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: DC8.0V - 16.0V
● 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 12V
● 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 indicator light (green) Water temperature (red) Motor oil (red) High beam light (blue) Left indicator light (green) Fuel (yellow) Engine (yellow)

Rem number
Backlight color: Green range - Case



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!

①Setting range: 5,000~20,000 RPM
②Setting unit: 100 RPM



Speedometer

①Display range: 0~360 km/h (0~225 MPH).
②Display unit: km/h & MPH for alternative.

Digital Tachometer

①Display range: 20,000 RPM.
②Display unit: 10 RPM.



Speeding warning light



Temperature alarm



Max. record

Item number
Average color: White/Orange/Black color



Attention!



Item number
Average color: White/Orange/Black color

Item number
Average color: White/Orange/Black color

Option accessory



Temperature alarm A/B

①Display range: 60~250°C
(140~482°F)
②Display unit: 1°C (°F)

Volt meter

①Display range: DC 0~18.0 V
②Display unit: DC 0.1 V

Fuel meter

①Display range: 0~100%
②Setting range: 100 Ω, 510 Ω,
no display

Clock

②4 H



Target Speed timer test



Target distance timer test



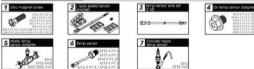
Top speed test

Item number
Average color: White/Orange/Black color



Item number
Average color: White/Orange/Black color

Option accessory



DB-02R

The new DB-02R is designed for the street bike without 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) 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)
○Trip meter A/B	Display unit: 1 km (mile) Display range: 0–999.9 km (mile), reset automatically after 0–999.9 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: 6
●Digital tachometer	Display range: 20,000 RPM Display unit: 10 RPM
●Bar graph tachometer	Display range: 10,000 RPM, 60 segment bar graph Display unit: 166 RPM for each segment Display range: 15,000 RPM, 60 segment bar graph Display unit: 250 RPM for each segment Display range: 20,000 RPM, 60 segment bar graph Display unit: 333 RPM for each segment
○RPM shift light	Display range: 5,000–20,000 Display unit: 100 RPM
○Pre-shift light A/B	Display range: -500–-5,000 before the shift light 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 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) Display unit: 0.1°C (°F)
○Display internal	<0.5 second
○Temperature alarm A/B	Display range: 60–250°C (140–482°F) 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 DC 12V
●Backlight	CR 2032
●Battery type (LCD display)	Around 220 hours nonstop
●Battery life time	-10–+60°C
●Effective temperature range	JS D 0203 S2
●Meter standard	100 X 60 X 20 mm
●Meter size	Around 200 g
●Meter weight (W X L X H)	<ul style="list-style-type: none"> ○ Speeding (Red) ○ Temperature alarm A/B (Red) ○ RPM shift light A (Yellow) ○ RPM shift light B (Orange) ○ RPM Shift light (Red)

DB-02R

●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 km (mile), reset automatically after 0–99999 km (mile)
○Trip meter A/B	Display unit: 1 km (mile) Display range: 0–999.9 km (mile), reset automatically after 0–999.9 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
●Digital tachometer	Display range: 20,000 RPM Display unit: 10 RPM
●Bar graph tachometer	Display range: 10,000 RPM, 60 segment bar graph Display unit: 166 RPM for each segment Display range: 15,000 RPM, 60 segment bar graph Display unit: 250 RPM for each segment Display range: 20,000 RPM, 60 segment bar graph Display unit: 333 RPM for each segment
○RPM shift light	Display range: 5,000–20,000 Display unit: 100 RPM
○Pre-shift light A/B	Display range: -500–-5,000 before the shift light 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 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) Display unit: 0.1°C (°F)
○Display internal	<0.5 second
○Temperature alarm A/B	Display range: 60–250°C (140–482°F) Display unit: 1°C (°F)
○Top temperature record	Display range: 0–250°C (32–482°F)
●Fuel meter	Display range: 0–100% Setting range: 100Q, 510Q, no display
○Insufficient fuel warning	Setting range: 10–50 % Setting unit: 10 %
●Volt meter	Display range: DC 0–18.0 V Display unit: DC 0.1 V
●Target speed timer	Setting range: 30–360 km/h (20–225 MPH) Setting unit: 5 km/h (MPH)
●Target distance timer	Setting range: 1/32–30/32 mile (50–1,500 M) Setting unit: 1/32 mile (50 M)
●Top speed timer	The record including: 1. Speed: 0–360 km/h (0–225 MPH) 2. Distance: 0–999 M (0–3,280 feet) 3. RPM: 0–20,000 RPM 4. Timer: 0–959 ⁹⁹ second.
●Effective voltage	DC 12V
●Effective temperature range	-10–+60°C
●Meter standard	JS D 0203 S2
●Meter size	100 X 60 X 20 mm
●Meter weight (W X L X H)	Around 200 g
●Tailtales	<ul style="list-style-type: none"> ○ Speeding (Red) ○ Temperature alarm A/B (Red) ○ RPM shift light A (Yellow) ○ RPM shift light B (Orange) ○ RPM Shift light (Red)



●Effective voltage	DC 12 V
●Effective temperature range	-10–+60°C
●Meter standard	JS 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	



Option accessory



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 tailtales 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.



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

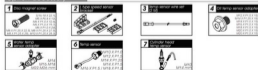
- Setting range: 60–250°C (140–482°F)
- Setting unit: 1°C (°F)



Temperature alarm



MAX record

**Option accessory**

● 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 100 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: 100Q, 250Q, 510Q, 1200Q, 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 Right	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	JS D 0203 S2
● Meter size (W X L X H)	120 X 68.5 X 44.1 mm
● Meter weight	Around 127.3 g
● Voltages	<ul style="list-style-type: none"> ● High beam (Blue) ● Neutral (Green) ● Oil (Red) ● RPM shift light (Yellow / Red) ● Temperature alarm (Red) ● Repeater (Green) ● EOBD (Amber) ● Speeding warning (Red)



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 : 16 grids
●Insufficient fuel warning	Setting unit : 100 Q - 250 Q - 510 Q - 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	JS 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
Weight,color : 0.350 kg,white - Panel color



Item number
Weight,color : 0.350 kg,white - Panel color



●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 : 16 grids
●Insufficient fuel warning	Setting unit : 100 Q - 250 Q - 510 Q - 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	JS D 0203 S2
●Meter size	77.5 X 74.8 X 34 mm
●Meter weight	Around 87 g

Item number
Weight,color : 0.350 kg,white - Panel color



Item number
Weight,color : 0.350 kg,white - Panel color

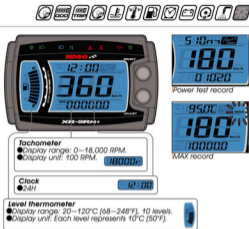
XR-01

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 ATVs. Its digital screen will provide important informations on your engine. The 8 indicator lights can be adapted to all motorcycles and ATVs. Its great shape and digital display will make your bike look different!



Item number
Stronger color, Darker color, Blue color



Blue: 0–18,000 RPM Black

Option accessory

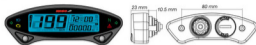


● Speedometer	Display range: 0–360 km/h (0–225 MPH) Display unit: km/h & MPH for alternative
○ Display interval	<0.5 second
○ Odometer	Display range: 0–99999.9 km (mile), reset automatically after 99999.9 km (mile) Display unit: 0.1 km (mile)
○ Trip meter A/B	Display range: 0–999.9 km (mile), reset automatically 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 interval	<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
○ Fuel warning	Setting range: 100Q, 250Q, 510Q, 1200Q, SW Setting range: 10–50%; Setting unit: 10% 24h
○ Clock	Display range: DC 8–18 V. Flashing warning when Voltage lower than 11.5 V or higher than 15.5 v.
● Volt meter	
● Top speed timer	The record including: Speed : 0–360 km/h (0–225 MPH) Distance : 0–999 M (0–3280 feet) Timer : 0–99999 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
● Tailtoiles	↔ Repeater (Green) ↖ Low beam (Green) ↗ High beam (Blue) N Neutral (Green) ▲ Hazard (Red light) ⬇ Temperature alarm (Red) ↔ Oil (Red)



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.



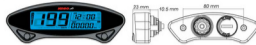
Speedometer	Display range: 0-360 km/h (0-225 MPH) Display unit: km/h & MPH for alternative
Display interval	<0.5 second
Odometer	Display range: 0-99999 km (mile), reset automatically after 99999km (mile) Display unit: 1 km (mile)
Trip meter	Display range: 0-9999.9 km (mile), reset automatically after 9999.9 km (mile) Display unit: 0.1 km (mile)
Hour meter	Display range: 0-9999.9 hour 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"> ■ High beam light (Blue) ↔ Direction light (Green) ■ Engine Light (Yellow) N Neutral (Green) ▲ Warning Light (Red)

Item number
Backlight color: Dark range: Front color:



White On road Black

Option accessory



Speedometer	Display range: 0-360 km/h (0-225 MPH) Display unit: km/h & MPH for alternative
Display interval	<0.5 second
Odometer	Display range: 0-99999 km (mile), reset automatically after 99999km (mile) 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 meter	Display range: 0-9999.9 hour 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: Dark range: Front color:



White On road Black

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.



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 need 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.



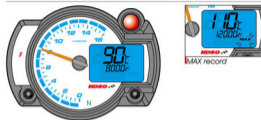
●Tachometer	Display range: 0-16,000 RPM
○Digital tachometer	Display range: 0-16,000 RPM ; Display unit: 100 RPM
○Shift light (Red / Yellow)	Display range: 0-16,000 RPM ; Display unit: 100 RPM
○MAX RPM record	Display range: 0-16,000 RPM
○Piston setting	Setting range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6
○The RPM input pulse	Setting range: Hi (The positive wave pulse) 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) Setting unit: 1°C (1°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, Shifts range, Panel color



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) 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) Setting unit: 1°C (1°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, Shifts range, Panel color



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 an 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.



044 / 045



- Boost Pressure digital display Display range: 0–30 PSI; will blink to warn of 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
Bezel color Display range Panel colorItem number
Bezel color Display range Panel color

Blue



MAX record



- AFR Meter Display Range: 9.0–24.0, flashes when the current value exceed the set value.
Display Range: 9–21
Display Unit: 0.2
- AFR Level Display
- Pressur 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: 0.0–250.0°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
- Meter weight AFE (Green)
Pressure (Red)
Low AFR (Red)
High AFR (Red)
Temperature (Red)
- Indicators

Item number
Bezel color Display range Panel colorItem number
Bezel color Display range Panel color

White

X-2 Boost Gauge

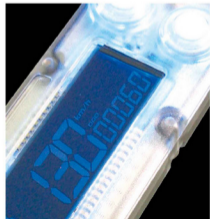
This new multi-function unit is a great tool for all horsepower enthusiasts that are upgrading their engine with Turbo or Supercharger. Following many requests, we came up with a unit that combines Boost, air/fuel ratio and a temperature function who can be installed on the cooling system or the intercooler. 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.



Race 2018

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.



046 / 047

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''
- 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''
- Record: 20 records

Speed up timing test

Target distance test

Top speed record

Item number
Bezel color: Display range: Panel color



1 9 4 0 0 0 1
Blue

Installation accessory

1. Power regulator
2. Active speed sensor
3. Stop speed sensor
4. External power supply
5. Power terminal
6. Power terminal

- 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
- 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''
 - 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''
 - 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



Race 2018

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.



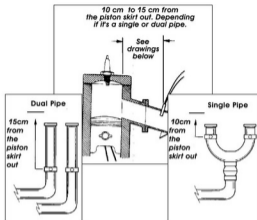
- Temperature A/B Display range: 100–1,200°C (250–2,100°F)
Display unit: 1°C (°F)
- Temperature alarm Setting range: 200–1,000°C (392–1,832°F)
Setting unit: 1°C (°F)
- Top temperature record Display range: 100–1,200°C (250–2,100°F)
Display unit: 1°C (°F), °C & °F for alternative
<0.5 second
- Display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

Item number Item number
Black/red color Black/red color Black/red color Black/red color



Blue EGT Blue SNU / EGT

Option accessory



INSTRUCTIONS

The temperature indicated on your gauge is the temperature of 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.



EGT

This nice backlighted 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 !



090 / 051



Switch °C to °F

④ In main screen, press down the **Select** button to switch °C to °F.

130C → 266F

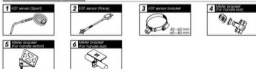
④ Temperature	Display range: 100–1,200°C (250–2,100°F) Display unit: 1°C (°F)
○ Temperature alarm	Setting range: 200–1,000°C (392–1,832°F) Setting unit: 1°C (°F)
○ Top temperature record	Display range: 100–1,200°C (250–2,100°F) Display unit: 1°C (°F), °C & °F for alternative
○ Display interval	<0.5 second
④ Supply voltage	DC 12V
④ Effective temperature range	-10~+60°C
④ Meter standard	JIS D 0203 S2
④ Meter size (W X L X H)	99.6 X 42 X 22.5 mm
④ Meter weight	Around 85 g

Item number Item number
Backlight color, Display range, Panel color Backlight color, Display range, Panel color



Item number Item number
Backlight color, Display range, Panel color Backlight color, Display range, Panel color

Option accessory



④ Air / fuel ratio meter	Display range: 10.0–24.0
④ Over lean setting	14.8–24.0
④ Over rich setting	14.6–10.0
④ Display interval	<0.5 second
④ Supply voltage	DC 12V
④ Effective temperature range	-10~+60°C
④ Meter standard	JIS D 0203 S2
④ Meter size (W X L X H)	99.6 X 42 X 22.5 mm
④ Meter weight	Around 85 g

Item number Item number
Backlight color, Display range, Panel color



Item number Item number
Backlight color, Display range, Panel color

Option accessory



Wide Band A/F Ratio

This nice backlighted 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.



Race 2018

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
Accessories color, Stroke-range, Power color



Item number
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 Indicating range: 4 - stage indication Warning range: will blink to warn the battery power is LOW
●Battery remaining capacity	CR 2032
●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
Accessories color, Stroke-range, Power color



Item number
White

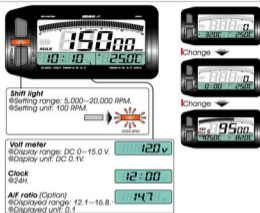
Air Density Meter

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.



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!

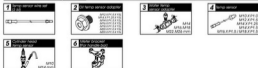


Item number
 Available color: Green, orange, Blue meter



Item number
 White 0–20,000 RPM

Option accessory



● Digital tachometer	Display range: 0–20,000 RPM Display unit: 100 RPM
● Level Tachometer	Display range: OFF - 0–10,000 - 15,000 - 20,000 RPM
○ Display interval	<0.5 second
○ Shift light	Setting range: 5,000–20,000 RPM 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 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) Display unit: 0.1 °C (°F)
○ Display interval	<0.5 second
○ Thermometer alarm	Setting range: 60–250 °C (140–482 °F) 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 Display unit: 0.1
○ Volt meter (Input power needed, can't work with CR 2032)	Display range: DC 8.0–18.0 V 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) ● Temperature A alarm (Blue) ● 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, endurance 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)

Item number
 Backlight color: Green range: Blue color



Barcode
 While: 0-360 km/h



● Speedometer	Display range: 0-360 km/h (0-255 MPH) Display range: 1 km/h (MPH)
○ Odometer	Display range: 0-99,999 km (mile) + reset automatically after 99,999 km (mile) 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) Display range: 0.1 km/h (MPH)
○ Avg Speed	Record range: 0-360 km/h (0-255 MPH) Record unit: 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)
● 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 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"-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) Setting unit: 5 km/h (MPH)
● Target distance timer	Setting range: 1/32-30/32 mile (50-1,500 M) 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 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 Display unit : 10 RPM
● The RPM input signal number setting	Setting unit : 0.5~4
● Logger function	Display range : 99 Data Maximum recordable time : Around 76 minute
● Record display	Display range : 0~20,000 RPM
● Resolution	Setting range : 16 levels Setting unit : 1(Dark)~16(Bright)
● Backlight	Setting range : 8 levels Setting unit : 0(Extinction) - 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



Item number
Backlight color Display range Panel color
White 0~20,000 RPM



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

Item number
Backlight color Display range Panel color



Item number
Backlight color Display range Panel color
White 0~350 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.



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.



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



Option accessory



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



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.



MINI 3

The new Mini 3 meter comes with the new shape design makes the meter look more stylish. Except the shape design, the new meter comes with a wider LCD display to show the information properly.



Thermometer A, B
 @0–120°C (32–248°F)
 22.0°C 120°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

Warn number
 Analog color Check single None color



Color
 White Black

Option accessory



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 sized 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/cm²**



● Oil pressure meter

Display range: 0.0~100.0PSI (0.0 - 7.0 kgf/cm²)

Display unit: 0.1PS (kgf/cm²).

Warning Range: When pressure below the setting value (included), the LCD display will flash to warn.

○ Oil pressure warning

● 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

Black/green color Black/green color Black/green color



Color
White Black

Option accessory



Amp meter

● 0~±30 A

15.8A

Volt meter

● DC 6.0~19.9 V

12.3V

● Amp meter

Display range: 0~±30 A~248°F

Display unit: 0.1 A

● Volt meter

Display range: DC 6.0~19.9 V

Setting unit: 0.1 V

○ Low Voltage warning

Setting range: DC 6.0~13.0 V

Setting unit: 0.1 V

○ Voltage warning

When the voltage is below DC 11.5 V or over 15.5 V, 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 22 g

Item number

Black/green color Black/green color Black/green color



Color
White Black

Option accessory



MINI 3 AMP & VOLT

The mini 3 series has 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.



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.



The A/F ratio is too rich

-R-

The A/F ratio is too lean

-L-

①A/F ratio Display range: 12.2-17.2
Setting unit: 0.1

②Effective voltage DC 12V

③Effective temperature range -10-+60°C

④Meter standard JIS D 0203 S2

⑤Meter size (W X L X H) 60 X 30 X 11.5 mm

⑥Meter weight Around 22g



Item number
Average color Blank range Panel color



White Black

Option accessory



Thermometer

①0-120°C (32-248°F)

22.0C 130F

①Thermometer Display range: -22-248 °F (-30-120 °C)
Display unit: 0.1°F (°C)

②Effective voltage DC 12 V

③Effective temperature range -4-+140 °F (-20-60 °C)

④Meter standard JIS D 0203 S2

⑤Meter size (W X L X H) 60 X 30 X 11.5 mm

⑥Meter weight Around 22 g



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.

Item number
Average color Blank range Panel color



White Black

Option accessory



Race

Mini style

MINI 3 CLOCK & VOLT

The mini 3 series has 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.



Clock ●24H	Volt meter ●DC 6.0-19.9 V
12:00	12.5

●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
Average color: Black, orange - Panel color



Option accessory



Clock ●24H	Thermometer ●DC 6.0-19.9 V
12:00	25

●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
Average color: Black, orange - Panel color



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!



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
Background color, Start range, Peak color



White KYMCO Black White YAMAHA Black White HONDA PCX Black



White YAMAHA S-Max Black White HONDA Max (GROM) Black



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:
Fuel level	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
Background color, Start range, Peak color



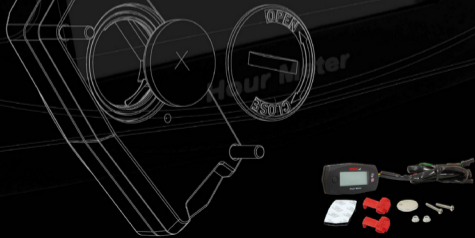
White Black

Option accessory



Race

MINI 4



Thermometer A, B

● -25°C ~ 250°C (-13°F ~ 482°F)

22.00 100.00

MAX Temp. record



① Thermometer A, B Display range: -25°C ~ 250°C (-13°F ~ 482°F)
 Display unit: 0.1°C (°F)

② Temperature Warning Range: Settable temperature warning range.
 Display will flash when the temperature is higher than (or equals to) the setting value.

③ Battery type

④ Battery life time CR 2032
About 230 H (when battery volume below 250 mAh)

⑤ Effective temperature range -10 ~ +60°C

Meter standard JIS D 0203

⑥ Meter size (W X L X H) 49.8 X 34.4 X 17.2 mm

⑦ Meter weight Around 47.6g

⑧ Item Number Average color Green range Heat color



⑨ Color White Black

⑩ 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 2018

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 portable 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 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
Average color: Green, orange, Green color



Option accessory
White Black

Option accessory



MAX RPM record

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



●Digital Tachometer	Display range: 0~15,000 RPM 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
●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
Average color: Green, orange, Green color



Option accessory
White Black

Option accessory

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.



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!



MAX RPM record

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



● Digital Tachometer	Display range: 0-15,000 RPM 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	JS 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: Start color: Home color:



Option accessory
White Black

Option accessory



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	JS 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: Start color: Home color:



Option accessory
White Black

Option accessory

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.



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 (1°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



Blue 0~120°C Black



Blue 32~248°F Black



Red 0~120°C Black



Red 32~248°F Black

Option accessory



Super slim style

VOLT

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.



Volt meter

● Display range : DC 8.0~16.0 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 8.0~16.0 V 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 Black



Red Black

Option accessory



Race

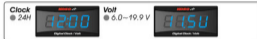
Super slim style

CLOCK & VOLT

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.



080 / 081



Ⓜ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 ON-turn on; OFF-turn off
ⓂDefault value for voltage warning	High voltage warning: 14.0 V 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

ⓂDigital Clock / Volt
Blue: 24h / 6-19.9 V Black

Option accessory



Ⓜ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

ⓂDigital Clock
Blue: 24h / 6-19.9 V 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 2018

Race

i-GEAR style

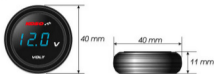
i-GEAR VOLT METER

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.



062 / 083

NEW !



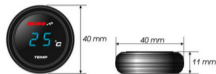
⊗ Meter	Display range : DC 7.0 ~ 19.9 V Display unit : 0.1 V
○ Voltage warning	When the voltage is lower than 12 V, the meter will flash to warn you.
⊗ Effective voltage	DC 12 V
⊗ Effective temperature range	-10 ~ +60 °C
⊗ Meter standard	JIS D 0203 S2
⊗ Meter size	∅40 x 11 mm
⊗ Meter weight	Around 24 g

Item number
Background color, Color range, Case

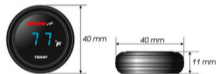


Blue DC7.0-19.9 V Black
Red DC7.0-19.9 V Black

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	∅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
Background color, Color 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 2018

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!



064 / 085

NEW!



- Speedometer Display range: 0 - 350 km/h (0 - 225 mile)
- Speedometer unit 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)
- The RPM input pulse 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
- Features
 - High beam (Blue) ▶ ◀
 - Neutral (Green) ▶ ◀
 - Reserve (RED) ▶ ◀
 - Repeater (Green) ▶ ◀
 - RPM Shift light (RED) ▶ ◀

Item number: 085
Available color: Chrome, Black



Item number: 085
Available color: White, Black

NEW!



- Speedometer Display range: 0 - 350 km/h (0 - 225 mile) switchable
- Speedometer unit Display range: km - mile
- Over speed warning Setting range: 30 - 350 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 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 (N1 - 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 000Ω - 250Ω - 270Ω - 540Ω - 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 milage 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 ▶ ◀ Turn signal ▶ ◀
 - Warning 1 ▶ ◀ High beam light ▶ ◀
 - Warning 2 ▶ ◀ Engine warning light ▶ ◀
 - Neutral ▶ ◀ ▶ ◀

Item number: 085
Available color: Chrome, Black



Item number: 085
Available color: 8 color, 0-350 km/h Chrome, 8 color, 0-350 km/h Black

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!



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.

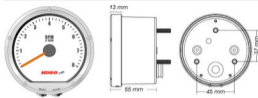


- Speedometer Display range: 0-350 km/h (0-225 MPH)
Display unit: km/h & MPH or alternative
- Odometer Display range: 0-99999 km (mile), reset automatically after 99999 km (mile)
Display unit: 1 km (mile)
- Trip meter A, B Display range: 0-9999.9 km (mile), reset automatically after 0-9999.9 km (mile)
Display unit: 0.1 km (mile)
- Top speed record Display range: 0-350 km/h (0-225 MPH)
- Tire circumference Setting range: 300-2,500 mm
Sensor point: 1-20 Setting unit: 1
- Clock 24 H
- Backlight brightness Setting range: 1-5 (Darkest)-5-5 (Brightest)
Setting unit: Each level represents 20%
- Effective voltage DC 12V
- Effective temperature range -10-+50 °C
- Meter standard JS D 0203 S2
- Meter size 85.5 X 54.5 mm
- Meter weight Around 330 g
- Shifts High beam (Blue) N
Neutral (Green) N
Warning Light (RED) 
Repeater (Green) 

Item number Average color Color 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)
Lo (Negative wave pulse)
- Backlight brightness Setting range: 6 different levels available
Setting unit: Each level represents 20%
- Supply voltage DC 12V
- Effective temperature range -10-+50°C
- Meter standard JS D 0203 S2
- Meter size (D X H) D86 X 55 mm
- Meter weight Around 330g

Item number Average color Color range Casing



White UNIVERSAL White White UNIVERSAL White White UNIVERSAL White



White UNIVERSAL Black White UNIVERSAL Black White UNIVERSAL Black

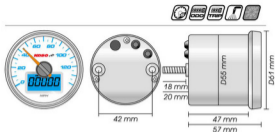
TNT-01R TACHOMETER

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.



HD-01S SPEEDOMETER

To make the needle stable for the high vibrations, we adapt 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.



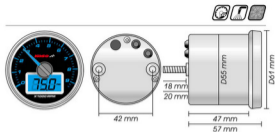
- Speedometer Display range: 0-220 km/h (0-140 MPH)
Display unit: MPH
- Display internal <0.5 second
- Odometer Display range: 0-99999 km (mile),
reset automatically after 99999 km (mile)
Display unit: 1 km (mile)
- Trip meter Display range: 0-999.9 km (mile),
reset automatically after 999.9 km (mile)
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

Item number Weight (max.) Price (single) Color



Blue D-140 MPH White Blue D-140 MPH Black Blue D-220 km/h White

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

Item number Weight (max.) Price (single) Color



Blue D-9,000 RPM Black Blue D-9,000 RPM White

Option accessory



HD-01R Tachometer (with Shift light)

To make the needle stable for the high vibrations, we adapt 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.



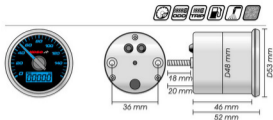
D48 SPEEDOMETER

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!



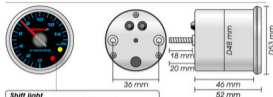
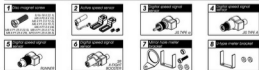
Speedometer	Display range: 0-160 km/h (mph) Display unit: 1 km/h (mph)
Display interval	<0.5 second
Odometer	Display range: 0-99,999 km (mile), reset automatically after 99,999 km (mile) Display unit: 1 km (mile)
Trip meter	Display range: 0-999.9 km (mile), reset automatically after 999.9 km (mile) Display 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	JS D 0203
Meter size (D X H)	D48 X 52 mm
Meter weight	Around 132.2 g

Item number
Mount color, Dial color, Needle color



Item number
Blue 0-150 Block

Option accessory



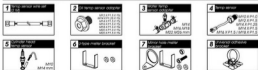
Shift light	Setting range: 0-15,000 RPM Setting unit: 500 RPM
Tachometer	Display range: 0-15,000 RPM Display unit: 500 RPM
Display interval	<0.5 second
Shift light	Setting range: 0-15,000 RPM Setting unit: 500 RPM
MAX RPM record	Display range: 0-15,000 RPM
Stroke / piston setting	2 Stroke: 1, 2 pistons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

Item number
Mount color, Dial color, Needle color



Item number
Blue 0-15,000 RPM Block Blue 0-15,000 RPM White

Option accessory



D48 TACHOMETER

To make the needle stable for the high vibration situation, we adapt 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.

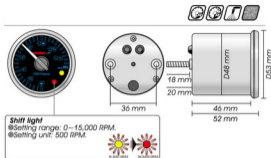
The 15,000 RPM tachometer with illuminated needle and dial is much easier for you to read in night. Two colors for you to choose black look or the simple white meter face design with the red needle.

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.

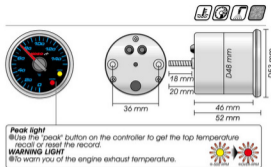
- Tachometer Display range: 0-15,000 RPM
Display unit: 500 RPM
- Display interval <0.5 second
- Shift light Setting range: 0-15,000 RPM
Setting unit: 500 RPM
- MAX RPM record Display range: 0-15,000 RPM
- Stroke / piston setting 2 Stroke: 1, 2 pistons
4 Stroke: 1, 2, 3, 4 pistons
- **Supply voltage**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

Item number
 Mounting color, display range, needle color



Item number
 Blue 0-15,000 RPM Black

Option accessory



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

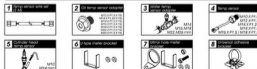
- Thermometer Display range: 0-150°C
Display unit: 1°C
- Thermometer level Setting range: 0-150°C
Setting unit: 1°C
- Top temperature record Display range: 0-150°C
- **Supply voltage** DC 12V
- Effective temperature range -10-+60°C
- Meter standard JS D 0203
- Meter size (D X H) D48 X 52 mm
- Meter weight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

Item number
 Mounting color, display range, needle color



Item number
 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 adapt 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.

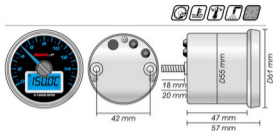
We have two colors for you to choose: black carbon look or the simple white meter face design.

We also provide the thermometer with the set table heat warning light as a option.



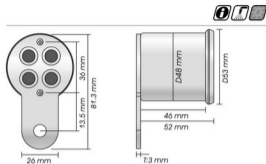
D55 TACHOMETER

To make the needle stable for the high vibrations, we adapt 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 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
Weight (kg) Price (€) Price (€)



- Telltales
 - High beam (Blue)
 - Repeater (Green)
 - Neutral (Green)
 - Oil (Red)
- Bulb specification **DC 12V**
- 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
Weight (kg) Price (€) Price (€)



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.



D55 SPEEDOMETER

To make the needle stable for the high vibration situation, we adapt 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.

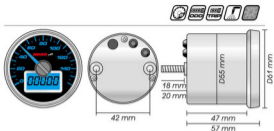
The illuminated needle design is much easily for you to read in night.

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!



096 / 097



- 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
- 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
Average color, Black, White, Blue, Red, Green



Blue 0-160 Black



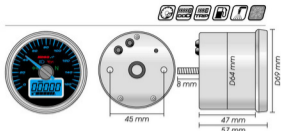
Blue 0-260 Black



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: 1 km (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
Average color, Black, White, Blue, Red, Green



Blue 0-160 Black

Option accessory

1. One magnet sensor
2. Red LED light
3. Blue LED light
4. Green LED light
5. Yellow LED light
6. White LED light
7. Fuel sensor
8. Tire meter sensor

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!

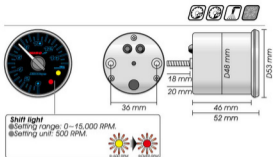


D48 TACHOMETER

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.



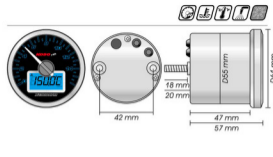
- Shift light
 - Ⓞ Setting range: 0-15,000 RPM.
 - Ⓞ Setting unit: 500 RPM.
- Tachometer
 - Ⓞ Display range: 0-15,000 RPM
 - Ⓞ Display unit: 500 RPM
 - Ⓞ Display interval <0.5 second
 - Ⓞ Shift light
 - Ⓞ Setting range: 0-15,000 RPM
 - Ⓞ Setting unit: 500 RPM
 - Ⓞ MAX RPM record
 - Ⓞ Display range: 0-15,000 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 JS D 0203
 - Ⓞ Meter size (D X H) D48 X 52 mm
 - Ⓞ Meter weight Around 117 g

Item number: Backlight color: Smoke lens: Frame color:



Blue 0-15,000 RPM Back

- Option accessory
1. Frame holder
 2. Mount hole holder
 3. Mounting hardware



- 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 JS D 0203
 - Ⓞ Meter size (D X H) D55 X 57 mm
 - Ⓞ Meter weight Around 190 g

Item number: Backlight color: Smoke lens: Frame color:



Blue 0-9,000 RPM Back

- Option accessory
1. Frame holder
 2. Mount hole holder
 3. Mounting hardware
 4. Temp sensor
 5. Control knob
 6. Mount hole holder
 7. Mounting hardware
 8. Temp sensor

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.



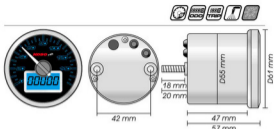
D55 SPEEDOMETER

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
Background color: Black strap: None color



Blue 0-160 Black

Option accessory

1. Tire pressure sensor
2. Lock cable sensor
3. Engine meter sensor
4. Backlight sensor
5. Speedy software



D64 SPEEDOMETER

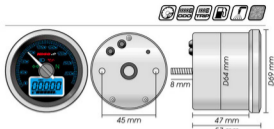
Sometimes it is not convenient for you to find the space to install the telltales after replacing the original meter with other meters. For solving this problem, KOSO make the new 64 mm speedometer series to fit all your demands.

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.



- 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
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
Background color: Black strap: None color



Blue 0-160 Black

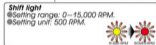
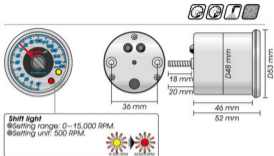


Blue 0-260 Black



D48 TACHOMETER

To make the needle stable for the high vibrations, we adapt 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.



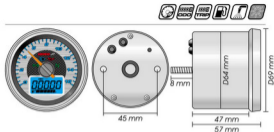
- Tachometer Display range: 0-15,000 RPM
Display unit: 500 RPM
- Display internal <0.5 second
- Shift light Setting range: 0-15,000 RPM
Setting unit: 500 RPM
- MAX RPM record Display range: 0-15,000 RPM
- Stroke / piston setting 2 Stroke: 1, 2 pistons
4 Stroke: 1, 2, 3, 4 pistons
- Supply voltage DC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

Item number
 849291 color: Black stroke: - Rev: 2016



Blue 0-15,000 RPM Black

Option accessory



- 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: 1000, 2500, 5100, 12000, SW

- Supply voltage DC 12V
- Effective temperature range -10-+60°C
- Meter standard JS D 0203
- Meter size (D X H) D64 X 57 mm
- Meter weight Around 190 g
- Telltales
 ● Repeater (Green)
 ● High beam (Blue)
 ● Oil (Red)
 ● Neutral (Green)

Item number
 849292 color: Black stroke: - Rev: 2016



Blue 0-160 Chrome



Blue 0-260 Chrome

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.

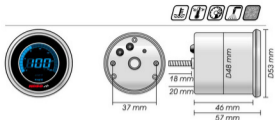
The new chrome dial is designed for fitting the speedometer on the custom bike.

With the chrome design, you could get rid of the plastic dial and get a better look chrome to fit your bike.



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 backlighted instrument will warn you before your engine becomes too hot.

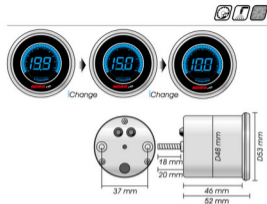


- Thermometer Display range: 0–250°C (32–500°F)
Display unit: 1°C (°F) for alternative
- Bar graph thermometer Display range: 0–250°C (32–500°F)
Display unit: 10°C (20°F)
- Temperature alarm Setting range: 80–250°C (140–482°F)
Setting unit: 1°C (°F)
- **DC12V**
- Effective voltage
- Effective temperature range -10–+60°C
- Meter standard JIS D 0203 52
- Meter size D48 X 52.8 mm
- Meter weight Around 117 g



Item number
Weight 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 interval <0.5 second
- MAX RPM record Display range: 0–10,000 / 15,000 / 19,900 RPM
- Stroke / piston setting 2 Strokes: 1, 2, 3, 4 pistons
4 Strokes: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
- **Supply voltage**
- 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
Weight color Display range Panel color
Blue 0–30,000 RPM Black

Option accessory



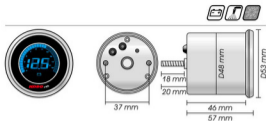
DL-01R D48 TACHOMETER

The DL-01R tachometer is a new type of LCD that was 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.



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.

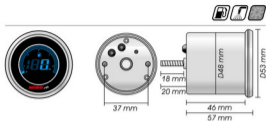


● Volt meter	Display range : DC 8.0~19.9 V
	Display unit : 0.1 V
○ Bar graph volt meter	Display range : DC 8.0~19.9 V
	Display unit : Around 0.56V per segment
□ The low voltage warning setting	Setting range : DC 8.0~12.0 V
	Setting unit : 0.1 V
● Effective voltage	DC12V
● Effective temperature range	-10~+60°C
● Meter standard	JIS D 0203 S2
● Meter size	D48 X 52.8 mm
● Meter weight	Around 117 g



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.

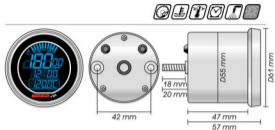


● Fuel meter	Display range: 0~100%
	Display unit: 1%
○ Bar graph fuel meter	Display range: 0~100%
	Display unit: Around 3.3%
□ Fuel level warning	Setting range: 0~25%
	Setting unit: 1%
● Fuel resistance	Setting range: 10(100 Ω), 51(510 Ω)
	US(Customize)
● Effective voltage	DC 12V
● Effective temperature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



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.



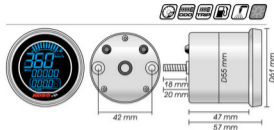
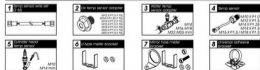
●Tachometer	Display range: 0–16,000 RPM Display unit: 100 RPM <0.5 second
○Display internal	
○Stroke / piston setting	2 Stroke: 1, 2, 3, 4 pistons 4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
●Thermometer	Display unit: °C & °F for alternative
●Digital thermometer	Display range: 0–120°C (32–248°F) Display unit: 0.1°C(°F)
●Thermometer level	Display range: 20–120°C (68–248°F), 10 segment bar graph Display unit: 10°C (50°F) for each segment <0.5 second
○Display internal	
●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, Stroke range, Panel color



Item number
Backlight color, Stroke range, Panel color

Option accessory



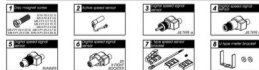
●Speedometer	Display range: 0–360 km/h (0–223 MPH) Display unit: km/h & MPH for alternative <0.5 second
○Display internal	
○Odometer	Display range: 0–99999 km (mile), reset automatically after 99999 km (mile) Display unit: 1 km (mile)
○Trip meter	Display range: 0–999.9 km (mile), reset automatically 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 level	Display range: 10 segment bar graph Display unit: 10 % for each segment 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, Stroke range, Panel color



Item number
Backlight color, Stroke range, Panel color

Option accessory



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, ATVs and scooters. This new type of display will makes your bike look different ! The facing of the instrument become totally dark when the ignition is off.

Electronics

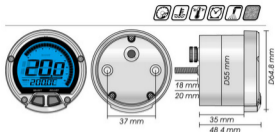
Black LCD

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.



110 / 111



- 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 <0.5 second
- 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
Beight color Chrome-Brige Panel color



- Clockwise**
- Blue 0–20,000 RPM Black
 - Blue 0–20,000 RPM Chrome
- Anti-clockwise**
- Blue 0–20,000 RPM Black
 - Blue 0–20,000 RPM Chrome

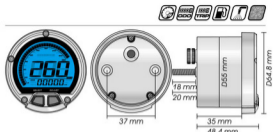
Option accessory



Black LCD

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.



- Speedometer Display range: 0–260 km/h (0–160 MPH)
Display unit: km/h & MPH for alternative <0.5 second
- 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: 0–9959⁹⁹ 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
Beight color Chrome-Brige Panel color



- Blue 0–260 km/h Chrome
- Blue 0–260 km/h Black

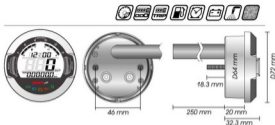
Option accessory



Electronics 2018

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: 999.9-0 km (mile)
Display unit: 0.1 km (mile)
- The 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
- Volt meter 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
- RelStates
N Neutral(green) O EOB (Amber) Oil (Red)
H High beam (Blue) Repeater(Green)

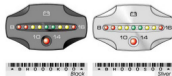


White Black White Black



- 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

CNC VOLT

As you know the bike is quite heavy, so it is very important for you to monitor the situation of the battery at 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

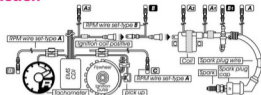
INSTRUCTIONS

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 RKYN, 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 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
SYM	MAJESTY 125	O	Orange	White/Blue	2C-1P
	S/MAX 125	O	X	X	2C-1P
	CYGNUS 125	X	X	White/Green	2C-1P
	GTR 125	O	X	White/Blue	2C-1P
YAMAHA/MSK	AEROX 50	O	X	White/Blue	2C-1P
	SLIDER 50	O	-	X	2C-1P
GLERA	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
Manufacturer	Predator 500	O	O	O	2C-1P
	Sportsman 600	X	O	X	2C-1P
HONDA	Sportsman 700	X	O	X	2C-1P
	TRX 400 EX	O	O	O	2C-1P
YAMAHA	TRX 450 P	O	O	O	2C-1P
	YZF 450	O	X	X	2C-1P
BOMBARDIER	04PT09	O	O	X	2C-1P
	UTZ 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	#-D	Pink
APRILIA	Gray / Violet	MV	Gray/Yellow
BMW	Black	TRIUMPH	Red
BEWELLI	Geay/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/ 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

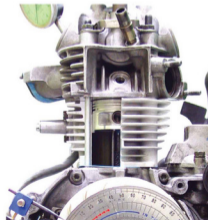
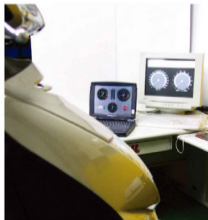
INSTRUCTIONS

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 & ACCESSORY

NEW !



GPS Speed signal converter kit

Item number
8 9 7 0 1 0 5 0 0

GPS Speed signal converter only

Item number
8 9 7 0 1 0 5 0 0 0

GPS transmitter only

Item number
8 9 7 0 1 0 5 0 0 0



L type
Speed sensor bracket

sensor	Item number
R20	8 9 1 0 0 3 1 0 0 0
R20/25	8 9 1 0 0 3 1 0 1 0



S type
Speed sensor bracket

Size	Item number
M8	8 9 1 0 0 2 5 0 0 0
M10	8 9 1 0 0 2 5 1 0 0



Sprocket magnet screw

sensor	Item number
M5 X P1.0 X 16.5L	8 9 7 0 1 0 4 1 0 0
M5 X P1.0 X 14L	8 9 7 0 1 0 4 2 0 0
M5 X P1.0 X 19.6L	8 9 7 0 1 0 4 3 0 0
M6 X 7.6L	8 9 7 0 1 0 6 6 0 0



Disc magnet screw

sensor	Pcs.	Item number
5/16 X P18 X 18.25L	1	8 9 7 0 1 0 5 0 0 0
M5 X P0.8 X 12L	1	8 9 7 0 1 0 5 1 0 0
M8 X P1.25 X 29L	1	8 9 7 0 1 0 6 0 0 0
M8 X P1.25 X 29L	2	8 9 7 0 1 0 6 1 0 0
M8 X P1.25 X 22.5L	1	8 9 7 0 1 0 6 2 0 0
M8 X P1.25 X 27.5L	1	8 9 7 0 1 0 6 3 0 0
M5 X P1.0 X 24L	1	8 9 7 0 1 0 6 4 0 0
M6 X P1.0 X 19.7L	1	8 9 7 0 1 0 6 5 0 0
M6 X P1.0 X 12.6L	1	8 9 7 0 1 0 6 3 0 0



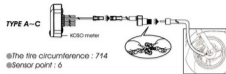
Magnet

Size	Pcs.	Item number
D6 X 5 mm	3	8 9 7 0 1 0 7 0 0 0
D9 X 2.5 mm	1	8 9 7 0 1 0 7 1 0 0
D10 X 3 mm	1	8 9 7 0 1 0 7 2 0 0
D15 X 5 mm	1	8 9 7 0 1 0 7 3 0 0
D6 X 5 mm	1	8 9 7 0 1 0 7 4 0 0

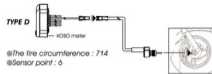


Magnet & E ring

Size	Item number
D11 X 6.5 mm	8 9 7 0 1 0 8 0 0 0



TYPE A-C
@The tire circumference : 714
@Sensor point : 6



TYPE D
@The tire circumference : 714
@Sensor point : 6

NEW !

Speed sensor (for Triumph BMW)

Model	Item number
A. 900 mm	8 9 7 0 1 0 9 0 0 0
B. 900 mm	8 9 7 0 1 0 9 1 0 0

NEW !

Speed sensor (for BMW)

Model	Item number
A. 900 mm	8 9 7 0 1 0 9 2 0 0
B. 900 mm	8 9 7 0 1 0 9 3 0 0

NEW !

Speed signal converter A

Model	Connector	Item number
SR, X-FIGHT, BOOSTER	A	8 9 7 0 1 0 9 4 0 0
SR, X-FIGHT, BOOSTER	B	8 9 7 0 1 0 9 5 0 0

NEW !

Speed signal converter B

Model	Item number
A. RUNNER	8 9 7 0 1 0 9 6 0 0
B. RUNNER	8 9 7 0 1 0 9 7 0 0

NEW !

Speed signal converter C

Model	Connector	Item number
SC - 01	A	8 9 7 0 6 0 0 1 0
SC - 01	B	8 9 7 0 6 0 0 1 0

NEW !

Speed signal converter D

Model	Connector	Item number
SC - 51	A	8 9 7 2 6 0 0 1 0
SC - 51	B	8 9 7 2 6 0 0 1 0



Active Bosh O² Sensor

Item number
90002003*



Race type O² Sensor

Item number
9000501*



O² Sensor adaptor screw kit

Item number
90002003*



Wide band O² Sensor

Item number
90002004*



O² Signal extension wire

Model	Item number
A.	90002001*
B.	90002003*



Temperature sensor adapter

Size	Item number
M12 X P1.5 X 15 L	90041215*
M14 X P1.25 X 15 L	90041215*
M14 X P1.5 X 15 L	90041215*
M16 X P1.5 X 15 L	90041215*
M18 X P1.5 X 15 L	90041215*
M20 X P1.0 X 15 L	90042010*
M20 X P1.5 X 15 L	90042015*



Temperature sensor

0~250°C (With water-proof connector)

Size	Item number
PT 1/8 X 28	90113000*
PT 3/8 X 19	90113001*
M10 X P1.0	90113001*
M10 X P1.25	90113001*
M12 X P1.5	90114000*
M14 X P1.25	90114000*
M14 X P1.5	90114000*
M16 X P1.5	90115000*
M18 X P1.5	90115000*



Temperature sensor

0~150°C

Size	Item number
PT 1/8 X 28	901120125*
M10 X P1.0	901120100*
M10 X P1.25	901120100*
M12 X P1.5	901140125*
M14 X P1.25	901140125*
M14 X P1.5	901140125*
M16 X P1.5	901160150*
M18 X P1.5	901160150*



Water temp adapter

(With Temperature sensor)

Size	Item number
14 mm	900314900*
16 mm	900316900*
18 mm	900318900*
22 mm	900322900*
26 mm	900326900*
28 mm	900328900*
30 mm	900330900*
32 mm	900332900*
34 mm	900334900*
36 mm	900336900*
38 mm	900338900*



Water temp adapter

(With Temperature sensor)

Size	Item number
14 mm	900414910*
16 mm	900416910*
18 mm	900418910*
22 mm	900422910*
26 mm	900426910*

WIRE HARNESS




Temp Sensor wire set (JST TYPE)

Size	Item number
105 mm	1000001001




Temp Sensor wire set

Size	Item number
1 M	1000001001
2 M	1000002001



RPM wire set (Type A)

Item number
1000001A00



RPM wire set (Type B)

Item number
1000001B00



RPM wire set (Type A)

Item number
1000001A01



RPM wire set (Type B)

Item number
1000001B01



RPM wire set (Type A)

Item number
1000001A02



RPM wire set (Type C)

Item number
1000001C00



Speed sensor extension wire set

Size	Item number
100 mm	1000005000



Shift light

Size	Item number
D48 mm	1000002001
D55 mm	1000003000



Battery box

Size	Item number
UNIVERSAL	1000001000



Connect terminal

Item number
1000001000

CHARGER & SWITCHES

NEW !



Dual Port USB Charger (2A)

Model	Automatic power off	Item number
Harley-Davidson	12.5 V	1000001001
Universal	11.5 V	1000001002
Universal	12.5 V	1000001003

NEW !



USB Charger (2A)

Automatic power off	Item number
11.5 V	1000009000

NEW !



USB cable bracket support quick charge

Color	Item number
Black	1000001K00
Red	1000001A00

NEW !



Fog light switch (For Aurora LED Fog Light)

Size	Item number
For Aurora LED Fog Light	1000006000

NEW !



Fog light switch (For 7/8 & 1 Inch)

Type	Item number
Handlebar	1000002000

NEW !



CNC switch (For 7/8 & 1 Inch)

Connector	Type	Item number
A	One button	1000001001
B	One button	1000002000



External extension button (For DL meter)

Size	Item number
For 55DL meter	1000006000



External extension button

Size	Item number
water-proof	1000002001

METER BRACKET



Meter bracket

Model	Item number
R2	96E010K00



Meter bracket

Model	Item number
RX1N, 2N, XR-SR	96E011001



Meter bracket

Model	Item number
XR-SR, XR-S	96E01V600



Meter bracket

Model	Item number
EGL, D8-01 / R	96E00A605



Handle bar meter bracket

Model	Handlebar size	Item number
RX1N, 2N, XR-SR	7/8"	96E011K02
	1 1/8"	96E003K00



Meter bracket

Model	Item number
XR-SR, XR-S, RS-DYNO	96E01A605



Handle bar meter bracket

Model	Handlebar size	Item number
RX1N, 2N, XR-SR	7/8"	96E01V602
	1 1/8"	96E003K02



Handle bar meter bracket

Model	Handlebar size	Item number
EGL, D8-01 / R	7/8"	96E01A600
	1 1/8"	96E003K01



Meter bracket (For TNT meter)

Model	Item number
TNT style	96E00A600



Handle bar meter bracket

Model	Handlebar size	Item number
Mini style	7/8"	96E002K02
	1 1/8"	96E003K00



Meter bracket (For D1 meter)

Model	Item number
7/8" (22.2mm)	96E003K01
1" (25.4mm)	96E005200



Screw type Adjustable meter bracket

Model	Item number
D48mm	96E040004
D55mm	96E050000
D64mm	96E040004



Meter bracket (For switch)

Model	Item number
Mini style	96E000H01



Adhesive type Adjustable meter bracket

Model	Item number
D48mm	96E040000
D55mm	96E050000
D64mm	96E040000



Meter bracket (For switch)

Model	Item number
Mini style	96E00A600



V type meter bracket

Model	Item number
D48-55 mm	96E040003
D64 mm	96E040003



D type meter bracket

Model	Item number
D48mm	96E040001
D55mm	96E050002
D64mm	96E040001



U type Meter bracket

Model	Item number
D48mm	96E040002
D55mm	96E050002
D64mm	96E040002
For D02	96E050002



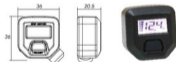
THE LCD SWITCH FEATURES!

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)



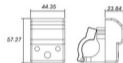
A type (2 Levels Trigger Switch)



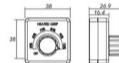
E type (5 Levels Electronic Switch)



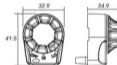
B type (2 Levels Electronic Switch)



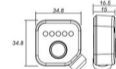
F type (Multi-levels Switch)



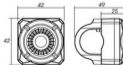
C type (Mini 2 levels Trigger Switch)



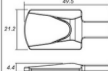
G type



D type (Luminous 2 Levels Switch)



THUMB HEATER KIT



Heater Grip

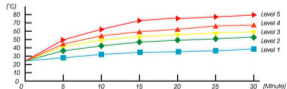


The Integrated Switch Features!

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 rider the opportunity 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.



NEW!

HG-13 with Integrated Switch



Size

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

Item number



HG-N3



HG-09



HG-N4



HG-11



HG-N5



HG-12



HG-07



HG-13



HG-08



HG-13 (with Integrated Switch)

NEW!



TITAN Heated Grip



TITAN Heated Grip FEATURES

Our Titan Heated Grip are perfect to warm you up with their 5 level heating function on your custom bike or cruiser. The external LCD controller display will enhance the visual look of these heated grips and will allow you to quickly know in which heat level the grips are set.

The heated grip is combine with plated aluminum and special rubber material that is resistant to outdoor conditions and elevated temperatures. Also with thin and flexible silicon wires make them easy to install.



NEW !

TITAN Heated Grip



REMOVABLE HEATED COVER FEATURES

A brand new idea for your heating solution. Have you ever feel complicate and inconvenience when installing the heated grips for your bike?

Have you ever feel the struggling about remove your original favorite grips from your handle bar?

If yes, then this product is customized for you! Easy installation with simple wiring, and you don't have to remove your grip which is even better.

Just tie the lace to fix the heated cover on your grips and you are complete ready to go enough the warmed cold weather journey; to simplify everything and minimize the spacing consuming, the kit provide the ON/OFF switch for you to choose start or stop the heating during anytime you are riding.

Specification

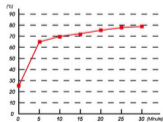
- Simplified design to allow easy installation and instant wiring.
- ON/OFF switch provide you the fast response heating option.
- Consistent current and voltage consuming to minimize the possibility of drained battery.
- Lace-Tied suit up allows you no need to remove your original grips.
- Fast temperature climbing to shorter your Hands-Frozen time.

Removable Heated Cover

NEW !

Removable Heated Cover

Size	Item number
L95mm L105mm	WART12050 WART12010



Characteristic

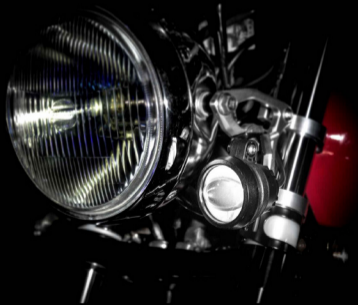
Voltage	Current	Watt
13.5V	0.9A	12.15W

Heater Grip 2018

LED LIGHT

Aurora LED Fog Light

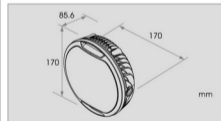
LED Daytime Running Light & Front Position Light



NEW !



Body Size



Thunderbolt LED Headlight



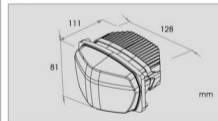
Body Color	Lens	Item number
	Clear	*GAG03050*



NEW !



Body Size



LED Headlight



Body Color	Lens	Item number
	Clear	*GAG03050*

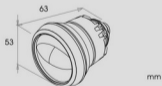
LED LIGHT



NEW !



Body Size



Aurora fog light



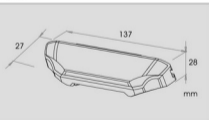
Body Color	Lens	pcs.	Accessories	Item number
Black	Clear	1	Frame	*H6008000*
Black	Clear	2	Frame / Switch / Drill Mounting System	*H8008001*



NEW !



Body Size



LED Daytime Running Light & Front Position Light



Body Color	Lens	Item number
	Clear	*H7000000*

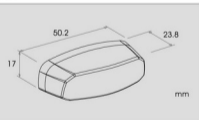
LED Tailight



NEW !



Body Size



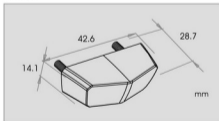
Hawkeye



Lens	Item number
Red	*H9034000*
Smoke	*H9034010*



Body Size

**Nano**

Lens

Item number

Red

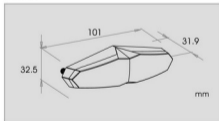
* H 0 2 4 0 0 0 *

Smoke

* H 0 2 4 0 1 0 *



Body Size

**Infinity**

Lens

Item number

Red

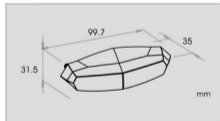
* H 0 2 5 0 1 0 *

Smoke

* H 0 2 5 0 2 0 *



Body Size

**Mini (with license plate light)**

Body Color

Lens

Item number

Clear

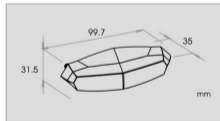
* H 0 2 0 0 0 0 *

Smoke

* H 0 2 0 0 1 0 *



Body Size

**Mini**

Lens

Item number

Clear

* H 0 2 0 4 0 0 *

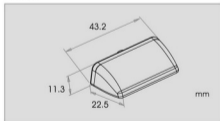
Smoke

* H 0 2 0 4 0 1 *

LED LIGHT



Body Size



Blade



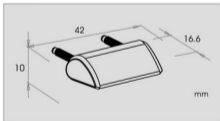
Lens
Black

Item number

H50080800



Body Size



Drop



Body Color
White
Black

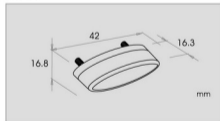
Lens
Clear
Clear

Item number

H50060800
H500A0800



Body Size



Oval



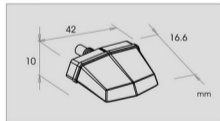
Lens
Clear

Item number

H5012M18



Body Size



Pentagon



Lens
Clear

Item number

H5012W17



LED LIGHT

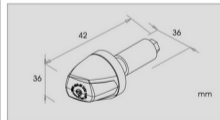
The brighter and stylish LED lights design by Koso is the best product you could find on the market with the newest technology in house. Koso offer you the Led lights and the controller to use it for different purpose.



NEW !



Body Size



Knight



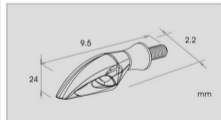
Body Color	Lens	pcs.	Item number
Black	Clear	1	* H E O 3 3 0 0 0 *
Black	Smoke	1	* H E O 3 3 0 1 0 *
Black	Smoke (13/17/20mm)	1	* H E O 3 3 0 1 2 *
Black	Smoke	2	* H E O 3 3 0 1 3 *



NEW !



Body Size



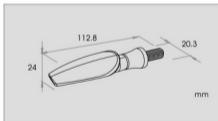
Storm



Body Color	Lens	pcs.	Item number
Black	Clear	1	* H E O 3 4 0 0 0 *
Black	Clear	2	* H E O 3 4 0 0 2 *



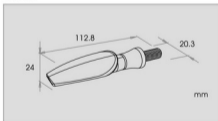
Body Size

**Infinity**

Body Color	Lens	Item number
Black	Clear	845030100
Black	Smoke	845030110



Body Size

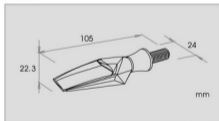
**Infinity-R (Winker/night & brake light)**

Body Color	Lens	Item number
Black	Smoke	845030110

Body Color	Lens	Item number
Black	Clear	845030100
Black	Smoke	845030110

Infinity-F (Winker & front position light)

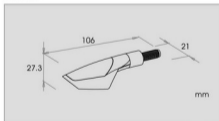
Body Size

**Mars**

Body Color	Lens	Item number
Black	Clear	845103410
Black	Smoke	845103420
Silver	Clear	845103500
Silver	Smoke	845103510



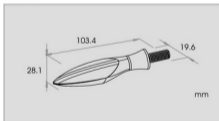
Body Size

**Jet**

Body Color	Lens	Item number
Silver	Clear	845101200
Black	Clear	845101400
Black	Smoke	845101410



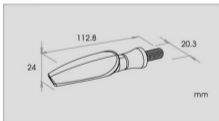
Body Size

**Stinger**

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



Body Size

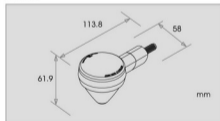
**Unlimited**

Body Color	Lens	Item number
Matte black	Clear	*H E 0 1 5 1 0 0 *
Chrome	Clear	*H E 0 1 5 1 0 1 *
Silver	Clear	*H E 0 1 5 1 0 2 *



NEW !

Body Size

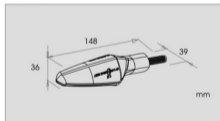
**Glare**

Body Color	Lens	pcs.	Item number
Black	Clear	1	*H E 0 3 1 0 0 0 *
Black	Clear	2	*H E 0 3 1 0 0 1 *
Black	Smoke	1	*H E 0 3 1 0 0 2 *
Black	Smoke	2	*H E 0 3 1 0 0 3 *
Black	Amber	2	*H E 0 3 1 0 2 1 *



NEW !

Body Size

**Arrow**

Body Color	Lens	Item number
Black	Clear	*H E 0 3 2 0 0 0 *
Black	Smoke	*H E 0 3 2 0 0 1 *
Black	Amber	*H E 0 3 2 0 0 2 *

LED LIGHT

Flasher relay feature

To give the normal flashing frequency to those bike adopting the LED light bulbs modification. Totally plug & play, and very easy to install.

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

NEW !



i Flash Relay

Type Item number
no sound version K5006040



LED Flash Relay

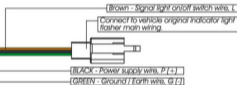
Type Item number
no sound version K5006040



LED Flash Relay

Type Item number
with blink sound K5006020

FOR 3-PIN



FOR 2-PIN



Connect to vehicle original indicator light flasher main wiring.
GREEN - Ground / Earth wire, G (-)



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 K5006035



Resistor for LED

Turn Signal Item number
20w8.5Q K5006115
10w3Q K5006117



TAILLIGHT BRACKET

Color Item number
Black Anodize K5006035
Silver Anodize K5006036

WINKER ADAPTER WIRE NEW !

Type	Item number
A. KAWASAKI	K50021000
B. HONDA	K50021002
C. YAMAHA	K50021050
D. DUCATI	K50021060
E. HARLEY DAVIDSON	K50021080
F. TRIUMPH	K50021090
G. MV AUGUSTA	K50021092
H. YAMAHA MT-09	K50021100
I. YAMAHA	K50021110
J. SUZUKI	K50019020
K. BMW	K50019030
L. YAMAHA	K50019050

LICENSE PLATE LIGHT ADAPTER WIRE

Type	Item number
1. YAMAHA	K50019040

