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KOSO 2013

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

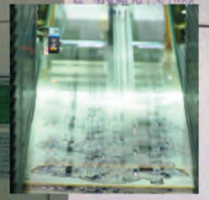
Certificate

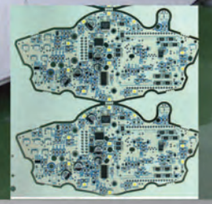
Standard ISO / TS 16949:2009

Certificate Holder KOSO

Scope Manufacturing of Digital LCD Meter, Rear view Mirrors and the Related Accessories for the Automotive Industry with product design and development.

Validity The certificate is valid from 25.05.2009 until 27.05.2012.





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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
- Telltales meter
- Shift light
- Gear meter
- JIS D 0203
- Hour meter
- Fuel
- Back light
- Water Thermometer
- Clock

Fluid-technik

Circuit-board plotter

Water spray tester

Programmable salt spray tester

Programmable temperature tester

Board plotter tester

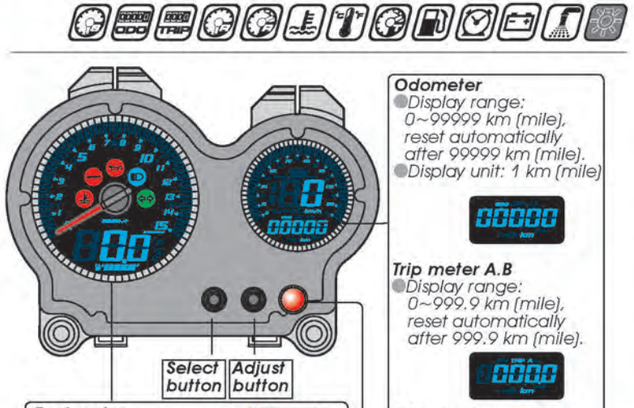
Tensility tester

3D Printer

GP style

YAMAHA AEROX
MBK NITRO '02~

The new Aerox EVO meter comes with 8 colors changeable backlight, so you could change the backlight to fit your own Aerox more.
The LCD bar graphic speedometer comes with 3 different scales to fit in different models on the market.
The new bar graphic tachometer comes with 2 different RPM scales, so you could also adjust the tachometer range according to your demand. Besides that, the new Aerox meter comes with the digital Tachometer at the same time and you could use it to adjust the engine.
The new power test functions could help you know more about the performance of your engine after tuning up.
There are so many upgraded function for Aerox,so don't miss it!



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).

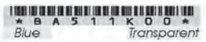
Clock
- 24H.

Fuel meter
- Display range: 5 levels.
- The fuel reserve symbol begins to flash if only 1 grids left.

Shift light
- Setting range: 3,000~20,000 RPM.
- Setting unit: 100 RPM.

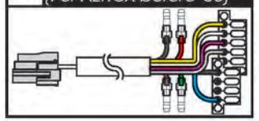
Pre-shift light
- Setting range: -500~-3,000 RPM before the shift light.
- Setting unit: -100 RPM.

Item number
Back light color Display range Panel color

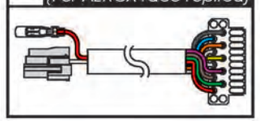


Option accessory

1 Main wire (For AEROX before '03)



2 Main wire (For AEROX race replica)

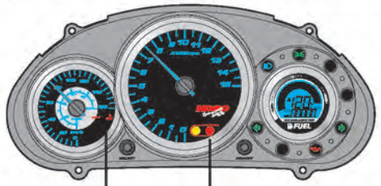


●Speedometer	Display range: 0~199 km/h (0~124 MPH)
●Bar graph speedometer	Display range: 0~80 MPH / 80 / 160 km/h
○Odometer	Display range: 0~99999 km (mile), reset automatically after 99999 km (mile) Display unit: 1 km (mile)
○Trip meter A.B	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile)
○Speeding warning light	Setting range: 30~199 km/h (19~124 MPH)
○Top speed record (Max.)	Display range: 0~199 km/h (0~124 MPH)
○Tire circumference compensation	Setting range: 50~210 %
●Needle tachometer	Display range: 0~10,000 / 15,000 RPM Display unit: 166 / 250 RPM
●Digital tachometer	Display range: 0~20,000 RPM Display unit: 100 RPM
●Bar graph tachometer	Display range: 0~10,000 / 15,000 RPM
○Shift light	Setting range: 3,000~20,000 RPM
○Pre-shift light	Setting range: -500~-3,000 RPM before the shift light
○Max. RPM record (Max.)	Display range: 0~20,000 RPM
○The RPM input signal number 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: 0~150°C (32~302°F) <100°C(°F)Display unit: 0.1°C (°F) >100°C(°F)Display unit: 1°C (°F)
○Over temp warning light	Setting range: 60~150°C (140~302°F)
○Top temperature record (Max.)	Display range: 0~150°C (32~302°F)
●Fuel meter	Display range: 5 levels Display unit: Each level represents 20 %
○Insufficient fuel warning	The fuel reserve symbol begins to flash if Only 1 grids left
●Clock	24 H
●Volt meter	Display range: DC 8.0~18.0 V
●Backlight brightness adjust	Setting range: 1-5 (Darker)~5-5 (Brighter) Setting unit: adding 20 % each adjustment (5 segments)
●Back light color change	Setting range: red, orange, yellow,green, blue, light blue, purple, white
●Target speed timer	Setting range: 30~195 km/h (20~120 MPH) Setting unit: 5 km/h (MPH)
●Target distance timer	Setting range: 1/32~30/32 mile (50~1,500 M)
●**Effective voltage**	**DC12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size (W X L X H)	169.4 X 131.2 X 89.8 mm
●Meter weight	Around 422 g
●Indicator light color	High beam-blue Turn signal-green Oil-red Speeding-red RPM shift light yellow / red Temperature alarm-red

GP style

GILERA RUNNER

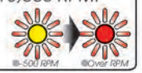
The all-new design speedometer for GILERA RUNNER.
With the 80 mm big & illuminated needle and the tachometer up to 15,000 RPM ,you could easily get the real time information right away.
The MAX120°C temperature gauge could show you the accurate situation of your engine.
The MAX160 km/h speedometer gives you the chance to know your limit.
The speedometer designed for racing and unique.



Speeding warning light

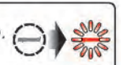
Temperature alarm

Shift light
- Setting range: 5,000~15,000 RPM.
- Setting unit: 100 RPM.



Speeding warning light
- Setting range: 30~160 km/h.
- Setting unit: 5 km/h.

Temperature alarm
- Setting range: 60~120°C.
- Setting unit: 1°C.



Item number
Back light color Display range Panel color

Blue 0~15,000 RPM Black

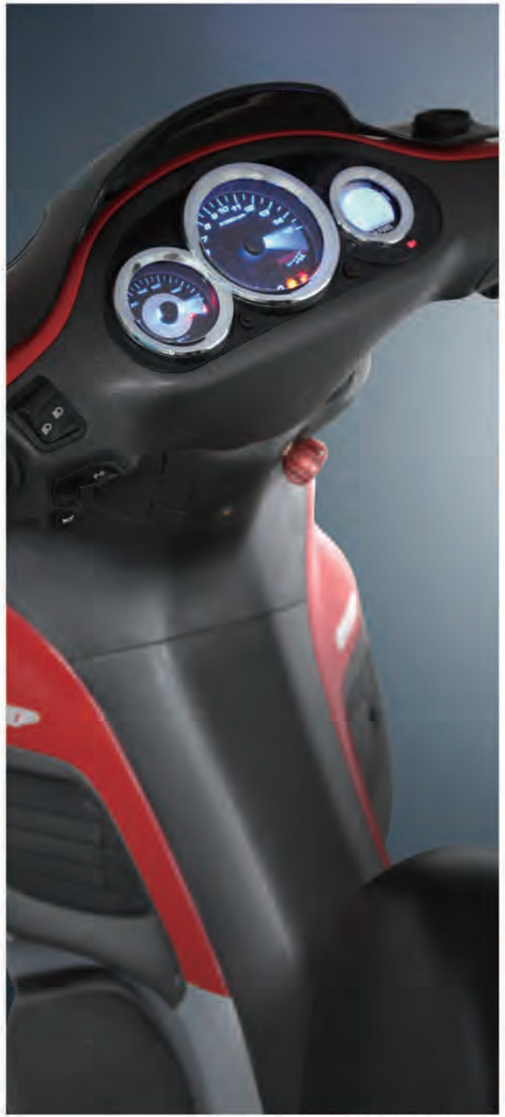
Option accessory

Speedometer	Display range: 0~160 km/h (0~100 MPH) Display unit: 1 km/h (MPH)
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
Speeding warning light	Setting range: 30~160 km/h Setting unit: 5 km/h
Tachometer	Display range: 0~15,000 RPM Display unit: 100 RPM
Display internal	<0.5 second
Shift light	Setting range: 5,000~15,000 RPM Setting unit: 100 RPM
Thermometer	Display range: 0~120°C Display unit: 1°C
Display internal	<0.5 second
Temperature alarm	Setting range: 60~120°C Setting unit: 1°C
Fuel level	Display range: 16 segment bar graph Display unit: 6.25 % for each segment
Supply voltage	**DC12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203
Meter size (W X L X H)	264 X 124.8 X 60.5 mm
Meter weight	
Indicator light color	High beam (Blue) Position (Green) Repeater (Green) Oil (Red) Speeding (Red) RPM shift light (Yellow / Red) Temperature alarm (Red)

Suitable model

Manufacturer	Model	CCM	Motor	Year
GILERA	RUNNER I SP	50	2TLC	'97~'99
GILERA	RUNNER CAT	50	2TLC	'01~'04
GILERA	RUNNER DD	50	2TLC	'98~'00
GILERA	RUNNER FX	125	2TLC	'97~'02
GILERA	RUNNER FX DD	125	2TLC	'97~'02
GILERA	RUNNER FXR DD	180	2TLC	'97~'02
GILERA	RUNNER PURE JET	50	2TLC	'00~

To install the speedometer on 4T model, please check the news on our website.



GP style

PEUGEOT
SPEEDFIGHT

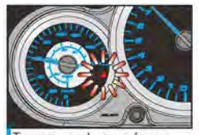
With the 80 mm big & illuminated needle and the tachometer up to 15,000 RPM, You could easily get the real time information right away.
The MAX 120°C temperature gauge could show you the accurate situation of your engine.
The MAX160 km/h speedometer gives you the chance to know your limit.
The speedometer designed for racing and unique.

Shift light
- Setting range: 5,000~15,000 RPM.
- Setting unit: 100 RPM.

Speeding warning light
- Setting range: 30~160 km/h.
- Setting unit: 5 km/h.

Temperature alarm
- Setting range: 60~120°C.
- Setting unit: 1°C.

Speeding warning light



Temperature alarm

●Speedometer	Display range: 0~160 km/h (0~100 MPH) Display unit: 1 km/h (MPH)
○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
○Speeding warning light	Setting range: 30~160 km/h Setting unit: 5 km/h
●Tachometer	Display range: 0~15,000 RPM Display unit: 100 RPM
○Display internal	<0.5 second
○Shift light	Setting range: 5,000~15,000 RPM Setting unit: 100 RPM
●Thermometer	Display range: 0~120°C Display unit: 1°C
○Display internal	<0.5 second
○Temperature alarm	Setting range: 60~120°C Setting unit: 1°C
●Fuel level	Display range: 16 segment bar graph Display unit: 6.25 % for each segment
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203
●Meter size (W X L X H)	242 X 135 X 77.7 mm
●Meter weight	
●Telltales	High beam (Blue) Oil (Red) Repeater (Green) Speeding (Red) RPM shift light (Yellow / Red) Temperature alarm (Red)

Item number
Back light color Display range Panel color

★ B A 7 0 1 B 1 0 ★
Blue 0~15,000 RPM Black

Option accessory

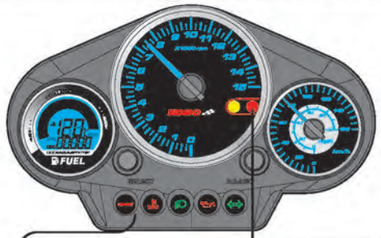
Suitable model

Manufacturer	Model	CCM	Motor	Year
PEUGEOT	SPEEDFIGHT	50	2T AC	
PEUGEOT	SPEEDFIGHT II	50	2T LC	'02
PEUGEOT	SPEEDFIGHT	100	2T AC	

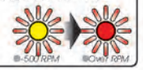
GP style

APRILIA SR ~'05

With the 70 mm big & illuminated needle and the tachometer up to 15,000 RPM, you could easily get the real time information right away.
The MAX 120°C temperature gauge could show you the accurate situation of your engine.
The MAX 160 km/h speedometer gives you the chance to know your limit.
The speedometer designed for racing and unique.



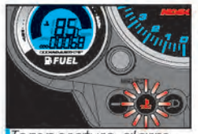
Shift light
- Setting range: 5,000~15,000 RPM.
- Setting unit: 100 RPM.



Speeding warning light
- Setting range: 30~160 km/h.
- Setting unit: 5 km/h.

Temperature alarm
- Setting range: 60~120°C.
- Setting unit: 1°C.

Speeding warning light



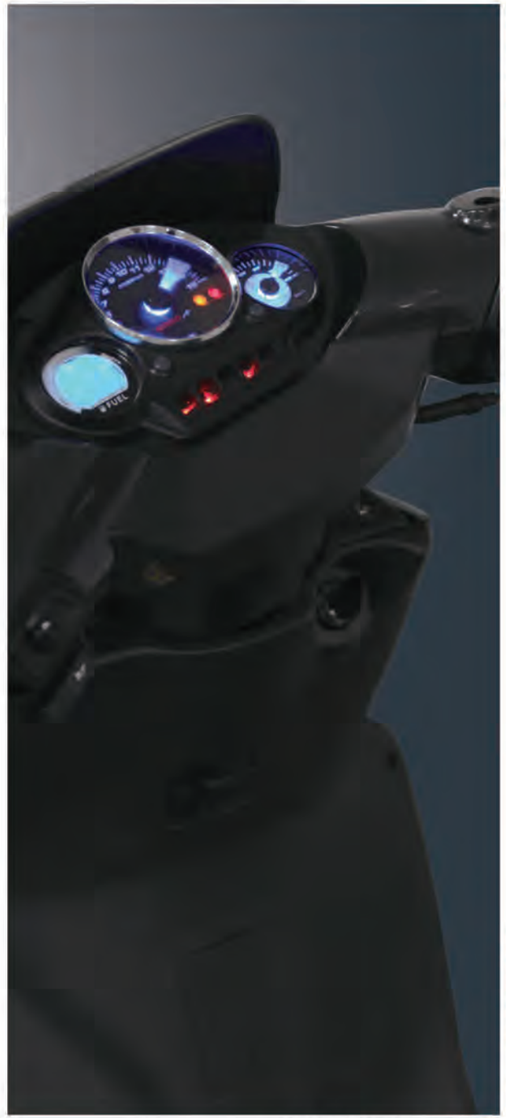
Temperature alarm

Item number
Back light color. Display range ... Panel color

★ B A 8 0 2 B 1 0 ★
Blue 0~15,000 RPM Black

Option accessory

●Speedometer	Display range: 0~160 km/h (0~100 MPH) Display unit: 1 km/h (MPH)
○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
○Speeding warning light	Setting range: 30~160 km/h Setting unit: 5 km/h
●Tachometer	Display range: 0~15,000 RPM Display unit: 100 RPM
○Display internal	<0.5 second
○Shift light	Setting range: 5,000~15,000 RPM Setting unit: 100 RPM
●Thermometer	Display range: 0~120°C Display unit: 1°C
○Display internal	<0.5 second
○Temperature alarm	Setting range: 60~120°C Setting unit: 1°C
●Fuel level	Display range: 16 segment bargraph Display unit: 6.25 % for each segment
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203
●Meter size (W X L X H)	188.7 X 115.5 X 74.6 mm
●Meter weight	
●Telltales	Low beam (Green) Oil (Red) Repeater (Green) Speeding (Red) RPM shift light (Yellow / Red) Temperature alarm (Red)



GP style

YAMAHA MIO

NEW !

Over heat warning

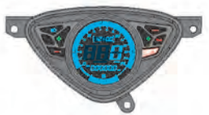
MAX record

Over temp warning light
- Setting range: 60~120°C
- Setting unit: 1°C

Shift light
- Setting range: 3,000~15,000 RPM.
- Setting unit: 100 RPM.

Pre-shift light
- Setting range: -500~-3,000 RPM before the shift light.
- Setting unit: -100 RPM.

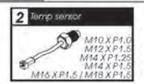
Item number
Back light color. Display range ... Panel color

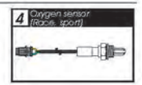


★BA516B00★ 8 color Black

★BA516W00★ 8 color Black

Option accessory



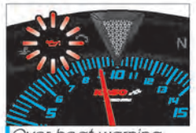


●Speedometer	Display range: 0~360 km/h Display unit: 1 km/H
○Display internal	<0.5 second
○Odometer	Display range: 0~99999.9 km (mile), reset automatically after 99999.9 km Display unit: 0.1 km
○Trip meter A.B	Display range: 0~999.9 km, reset automatically after 999.9 km Display unit: 0.1 km
○Oil maintenance mileage	Setting range: 300~5,000 km Setting unit: per 100 km
○Top speed record (Max.)	Display range: 0~360 km/h
○Tire circumference compensation	Setting range: 50~210 % Setting unit : 1 %
●Bar graph tachometer	Display range: 0~15,000 RPM Display unit: 200 RPM
●Digital tachometer	Display range: 0~20,000 RPM Display unit: 100 RPM
○Display internal	<0.5 second
○Shift light	Setting range:3,000~15,000 RPM Setting unit: 100 RPM
○Pre-shift light	Setting range: -500~-3,000 RPM before the shift light Setting unit: -100 RPM
○Max. RPM record (Max.)	Display range: 0~15,000 RPM
●Thermometer	Display range: 0~120°C Display unit: 0.1°C
○Display internal	<0.5 second
○Over temp warning light	Setting range: 60~120°C Display unit: 0.1°C
○Top temperature record (Max.)	Display range: 0~120°C
●A/F ratio	Display range: 12.1~16.8 Display unit: 0.1
●Fuel meter	Display range: 10 grids Display unit: Each level represents 10 %
○Insufficient fuel warning	The fuel reserve symbol begins to flash if Only 3 grids left
●Clock	24 H
●Volt meter	Display range: DC 8.0~16.0 V Display unit: DC 0.1 V
●Back light brightness adjust	Setting range: 1-5 (Darker)~5-5 (Brighter) Setting unit: adding 20 % each adjustment (5 segments)
●Back light color change	Setting range: red, orange, yellow, green, blue, light blue, purple, white
●**Effective voltage**	**DC12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size (W X L X H)	225.3 X 120 X 62.2 mm
●Meter weight	Around 330 g
●Indicator light color	High beam-blue Turn signal-green Oil-red RPM shift light yellow / red Temperature alarm-red

GP style

YAMAHA LC135

NEW !

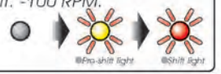


Over heat warning

MAX record

Shift light
- Setting range: 3,000~15,000 RPM.
- Setting unit: 100 RPM.

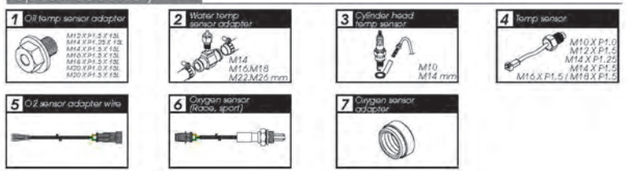
Pre-shift light
- Setting range: -500~-3,000 RPM before the shift light.
- Setting unit: -100 RPM.



Item number
Back light color Display range Panel color

★ B A 5 2 0 B 0 1 ★
8 color Black

Option accessory

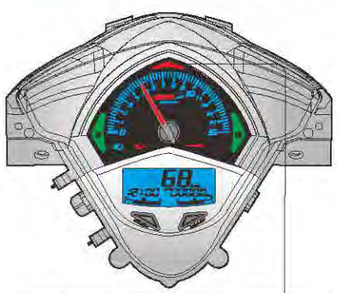


Speedometer	Display range: 0~360 km/h Display unit: 1 km/h
Display internal	<0.5 second
Odometer	Display range: 0~99999.9 km, reset automatically after 99999.9 km Display unit: 0.1 km
Trip meter A.B	Display range: 0~999.9 km, reset automatically after 999.9 km Display unit: 0.1 km
Oil maintenance mileage	Setting range: 300~5,000 km Setting unit: per 100 km
Top speed record (Max.)	Display range: 0~360 km/h
Tire circumference compensation	Setting range: 50~210 % Setting unit: 1 %
Gear indicator	Display range: N, 1, 2, 3, 4, 5
Tachometer	Display range: 0~20,000 RPM Display unit: 100 RPM
Digital tachometer	Display range: 0~15,000 RPM Display unit: 250 RPM
Display internal	<0.5 second
Shift light	Setting range:3,000~15,000 RPM Setting unit: 100 RPM
Pre-shift light	Setting range: -500~-3,000 RPM before the shift light Setting unit: 100 RPM
Max. RPM record (Max.)	Display range: 0~15,000 RPM
The RPM input signal number setting (For FI model only)	Setting range: 0.5, 1~25 Setting unit: 1
The RPM input pulse	Setting range: HI (The positive wave pulse) Lo (The negative wave pulse)
Thermometer	Display range: 0~120°C Display unit: 0.1°C
Display internal	<0.5 second
Top temperature record (Max.)	Display range: 0~120°C
A/F ratio	Display range: 12.1~16.8 Display unit: 0.1
Fuel meter	Display range: 10 grids Display unit: Each level represents 10 %
Insufficient fuel warning	The fuel reserve symbol begins to flash if Only 3 grids left
Clock	24 H
Volt meter	Display range: DC 8.0~16.0 V Display unit: DC 0.1 V
Back light brightness adjust	Setting range: 1-5 (Darker)~5-5 (Brighter) Setting unit: adding 20 % each adjustment (5 segments)
Back light color change	Setting range: red, orange, yellow, green, blue, light blue, purple, white
Effective voltage	**DC12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	176 X 122.7 X 71.7 mm
Meter weight	Around 357g
Indicator light color	High beam-blue, Turn signal-green Neutral-green, EOBD (Amber) Temperature alarm-red, Oil-red, RPM shift light yellow / red

GP style

HONDA BEAT

NEW !



Over heat warning

MAX record

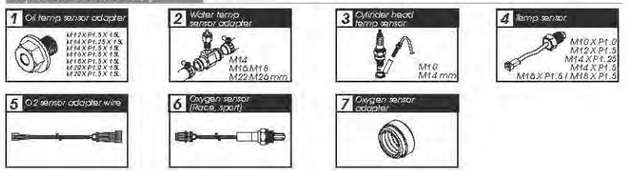
Shift light
- Setting range: 3,000~15,000 RPM.
- Setting unit: 100 RPM.

Pre-shift light
- Setting range: -500~-3,000 RPM before the shift light.
- Setting unit: -100 RPM.

Item number
Back light color Display range Panel color

★ 8 A 0 3 1 0 0 0 ★
8 color Black

Option accessory



●	Speedometer	Display range: 0~360 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: 0.1 km
○	Trip meter A.B	Display range: 0~999.9 km, reset automatically after 999.9 km Display unit: 0.1 km
○	Oil maintenance mileage	Setting range: 300~5,000 km Setting unit: per 100 km
○	Top speed record (Max.)	Display range: 0~360 km/h
○	Tire circumference compensation	Setting range: 50~210 % Setting unit: 1 %
●	Tachometer	Display range: 0~15,000 RPM Display unit: 250 RPM
●	Digital Tachometer	Display range: 0~20,000 RPM Display unit: 100 RPM
○	Display internal	<0.5 second
○	Shift light	Setting range: 3,000~15,000 RPM Setting unit: 100 RPM
○	Pre-shift light	Setting range: -500~-3,000 RPM before the shift light Setting unit: -100 RPM
○	Max. RPM record (Max.)	Display range: 0~15,000 RPM
○	The RPM input signal number setting	Setting range: 0.5, 1~25
	(For FI model only)	Setting unit: 1
○	The RPM input pulse	Setting range: Hi (The positive wave pulse) Lo (The negative wave pulse)
●	Thermometer	Display range: 0~120°C Display unit: 0.1°C
○	Display internal	<0.5 second
○	Top temperature record (Max.)	Display range: 0~120°C
●	A/F ratio	Display range: 12.1~16.8 Display unit: 0.1
●	Fuel meter	Display range: 4 levels Display unit: Each level represents 25 %
○	Insufficient fuel warning	The fuel reserve symbol begins to flash if Only 1 grids left
●	Clock	24 H
●	Volt meter	Display range: DC 8.0~16.0 V Display unit: 0.1V
●	Back light brightness adjust	Setting range: 1-5 (Darker)~5-5 (Brighter) Setting unit: adding 20 % each adjustment (5 segments)
●	Back light color change	Setting range: red, orange, yellow, green, blue, light blue, purple, white
●	**Effective voltage**	**DC12V**
●	Effective temperature range	-10~+60°C
●	Meter standard	JIS D 0203 S2
●	Meter size (W X L X H)	176X 122.7 X 71.7 mm
●	Meter weight	Around 357 g
●	Indicator light color	High beam-blue Turn signal-green Oil-red Warning-red RPM shift light yellow / red

GP style

HONDA GN5

NEW !

MAX record

Clock
- 24 H

Digital Volt meter
- Display range: DC 8.0~18.0 V
- Display unit: DC 0.1 V

Item number
Back light color Display range Panel color

Blue Black

Option accessory

Speedometer	Display range: 0~360 km/h Display unit: 1 km/H
Display internal	<0.5 second
Odometer	Display range: 0~99999.9 km (mile), reset automatically after 99999.9 km Display unit: 1 km
Trip meter A.B	Display range: 0~999.9 km, reset automatically after 999.9 km Display unit: 0.1 km
Oil maintenance mileage	Setting range: 300~5,000 km Setting unit: per 100 km
Top speed record (Max.)	Display range: 0~360 km/h
Tire circumference compensation	Setting range: 50~210 % Setting unit: 1%
Tachometer	Display range: 0~15,000 RPM Display unit: 250 RPM
Digital tachometer	Display range: 0~20,000 RPM Display unit: 100 RPM
Display internal	<0.5 second
Max. RPM record (Max.)	Display range: 0~15,000 RPM
The RPM input signal number setting	Setting range: 0.5, 1~25 Setting unit: 1
The RPM input pulse	Setting range: HI (The positive wave pulse) Lo (The negative wave pulse)
Fuel meter	Display range: 4 grids Display unit: Each level represents 25 %
Insufficient fuel warning	Fuel level begins to flash when only 1 level left
Clock	24 H
Volt meter	Display range: 4 grids Display unit: 1 grid (Low) - DC 11.6~12.0 V 2 grid - DC 12.1~12.5 V 3 grid - DC 12.6~13.0 V 4 grid (Higt) - DC 13.1 V~
Insufficient volt warning	The volt reserve symbol begins to flash if only 1 grids left
Back light brightness adjust	Setting range: 1-5 (Darker)~5-5 (Brighter) Setting unit: adding 20 % each adjustment (5 segments)
Effective voltage	**DC12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	145.8 X 116.4 X 71.7 mm
Meter weight	Around 348 g
Indicator light color	HI High beam-blue Turn signal-green Oil-red Topgear-Amber N Neutral-green

GP style

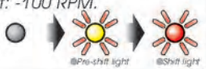
YAMAHA NEW LC135

NEW !

MAX record

Shift light
- Setting range: 3,000~15,000 RPM.
- Setting unit: 100 RPM.

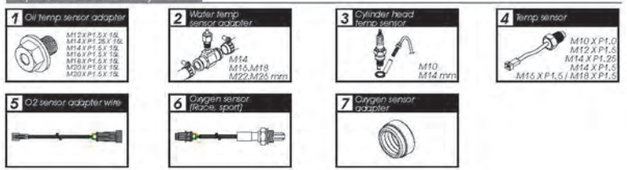
Pre-shift light
- Setting range: -500~-3,000 RPM before the shift light.
- Setting unit: -100 RPM.



Item number
Back light color Display range Panel color

★ B A 5 2 0 B 1 0 ★
8 color Black

Option accessory

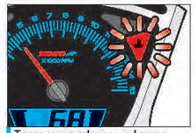


Speedometer	Display range: 0~360 km/h Display unit: 1 km/h
Display internal	<0.5 second
Odometer	Display range: 0~99999 km, reset automatically after 99999 km Display unit: 1 km
Trip meter A.B	Display range: 0~999.9 km, reset automatically after 999.9 km Display unit: 0.1 km
Oil maintenance mileage	Setting range: 300~5,000 km Setting unit: per 100 km
Top speed record (Max.)	Display range: 0~360 km/h
Tire circumference compensation	Setting range: 50~210 % Setting unit: 1 %
Gear indicator	Display range: 1, N, 2, 3, 4, 5
Tachometer	Display range: 0~15,000 RPM Display unit: 250 RPM
Digital tachometer	Display range: 0~20,000 RPM Display unit: 100 RPM
Display internal	<0.5 second
Shift light	Setting range:3,000~15,000 RPM Setting unit: 100 RPM
Pre-shift light	Setting range: -500~-3,000 RPM before the shift light Setting unit: -100 RPM
Max. RPM record (Max.)	Display range: 0~15,000 RPM
The RPM input pulse	Setting range: HI (The positive wave pulse) Lo (The negative wave pulse)
Thermometer	Display range: 0~120°C Display unit: 0.1°C
Display internal	<0.5 second
Top temperature record (Max.)	Display range: 0~120°C
A/F ratio	Display range: 12.1~16.8 Display unit: 0.1
Fuel meter	Display range: 10 grids Display unit: Each level represents 10 %
Insufficient fuel warning	The fuel reserve symbol begins to flash if Only 3 grids left
Clock	24 H
Volt meter	Display range: DC 8.0~18.0 V Display unit: DC 0.1 V
Back light brightness adjust	Setting range: 1-5 (Darker)~5-5 (Brighter) Setting unit: adding 20 % each adjustment (5 segments)
Back light color change	Setting range: red, orange, yellow, green, blue, light blue, purple, white
Effective voltage	**DC12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	193.2 X 169.3 X 77.6 mm
Meter weight	Around 447 g
Indicator light color	High beam-blue Turn signal-green Neutral-green EOBD (Amber) Temperature alarm-red Oil-red RPM shift light yellow / red

GP style

HONDA SH-150i

NEW !



Temperature alarm

MAX record

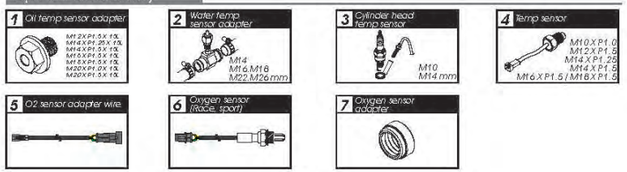
Shift light
- Setting range: 3,000~15,000 RPM.
- Setting unit: 100 RPM.

Pre-shift light
- Setting range: -500~-3,000 RPM before the shift light.
- Setting unit: -100 RPM.

Item number
Back light color. Display range. Panel color.

★ B A 6 2 0 0 0 0 ★
Blue Black

Option accessory



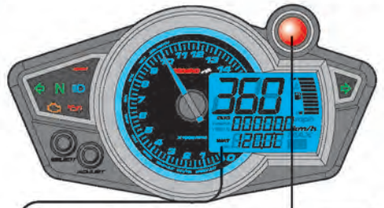
Speedometer	Display range: 0~360 km/h Display unit: 1 km/h
Display internal	<0.5 second
Odometer	Display range: 0~99999 km, reset automatically after 99999 km Display unit: 1 km
Trip meter A.B	Display range: 0~999.9 km, reset automatically after 999.9 km Display unit: 0.1 km
Oil maintenance mileage	Setting range: 300~5,000 km Setting unit: per 100 km
Top speed record (Max.)	Display range: 0~360 km/h
Tire circumference compensation	Setting range: 50~210 % Setting unit: 1 %
Tachometer	Display range: 0~15,000 RPM Display unit: 250 RPM
Digital tachometer	Display range: 0~20,000 RPM Display unit: 100 RPM
Display internal	<0.5 second
Shift light	Setting range:3,000~15,000 RPM Setting unit: 100 RPM
Pre-shift light	Setting range: -500~-3,000 RPM before the shift light Setting unit: -100 RPM
Max. RPM record (Max.)	Display range: 0~15,000 RPM
The RPM input signal number setting (For FI model only)	Setting range: 0.5, 1~25 Setting unit: 1
The RPM input pulse	Setting range: HI (The positive wave pulse) Lo (The negative wave pulse)
Thermomete	Display range: 0~120°C Display unit: 0.1°C
Display internal	<0.5 second
Top temperature record (Max.)	Display range: 0~120°C
A/F ratio	Display range: 12.1~16.8 Display unit: 0.1
Fuel meter	Display range: 6 grids Display unit: Each level represents 16.6 %
Insufficient fuel warning	The fuel reserve symbol begins to flash if Only 1 grids left
Clock	24 H
Volt meter	Display range: DC 8.0~16.0 V Display unit: DC 0.1 V
Backlight brightness adjust	Setting range: 1-5 (Darker)~5-5 (Brighter) Setting unit: adding 20 % each adjustment (5 segments)
Effective voltage	**DC12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	187 X 177.1 X 97.6 mm
Meter weight	
Indicator light color	High beam-blue, Turn signal-green Volt-red, EOBD (Amber) Temperature alarm-red, Oil-red, RPM shift light yellow / red

GP style

E-mark approval

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 distance test provides you the chance to see how fast you are and how much time you need to reach at a limited distance.
The target speed test provides you the information of how much distance you need to reach the speed you set and how long it takes.
It is just like you have a DYNO on your machine for you to adjust your machine. Are you ready to join the race?



Shift light
- Setting range: 5,000~15,000 RPM.
- Setting unit: 100 RPM.

Pre-Shift light
- Setting range: -500~-3,000 RPM before the shift light.
- Setting unit: 100 RPM.

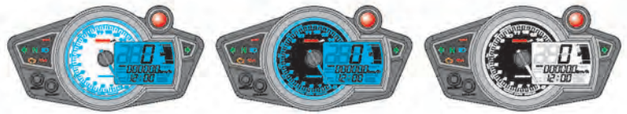
Temperature alarm (water & oil temperature)
- Setting range: 60~120°C (140~248°F).
- Setting unit: 1°C (°F).

Target speed test

Target distance test

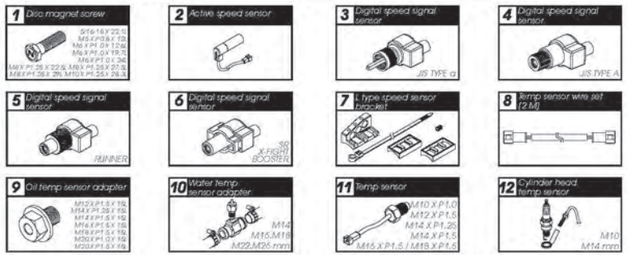
MAX record

Item number
Back light color Display range Panel color



Item number	Back light color	Display range	Panel color
BA01TB02	Blue	0~15,000 RPM	White
BA01TB03	Blue	0~15,000 RPM	Black
BA01TW02	White	0~15,000 RPM	Black

Option accessory



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)
Speeding warning light	Setting range: 30~180 km/h (20~110 MPH) Setting unit: 5 km/h (MPH)
Top speed record	Display range: 0~360 km/h (0~223 MPH)
Tire circumference	Setting range: 300~2,500 mm Setting unit: 1 mm, Pulse setting: 1~60
Tachometer	Display range: 0~15,000 RPM Display unit: 100 RPM
Display internal	<0.5 second
Shift light	Setting range: 5,000~15,000 RPM Setting unit: 100 RPM
Pre-shift light	Setting range: -500~-3,000 RPM before the shift light Setting unit: 100 RPM
MAX RPM record	Display range: 0~15,000 RPM
Stroke / piston setting	2 Stroke: 1, 2, 3, 4 pistons 4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
Thermometer	Display unit:°C & °F for alternative
Digital thermometer (Water & oil temperature)	Display range: 0~120°C (32~248°F) Display unit: 0.1°C (°F)
Thermometer level (Water temperature)	Display range: 20~120°C (68~248°F), 10 segment bar graph Display unit: 10°C (50°F) for each segment
Display internal	<0.5 second
Temperature alarm (Water & oil temperature)	Setting range: 60~120°C (140~248°F) Setting unit: 1°C (°F)
Top temperature record	Display range: 0~120°C (32~248°F)
Fuel level	Display range: 10 segment bar graph Display unit: 10 % for each segment Setting range: 100 Ω, 510 Ω, no display
Insufficient fuel warning	Setting range: 10~50 % Setting unit: 10 %
Clock	24H
Target speed timer	Setting range: 30~360 km/h (20~220 MPH) Setting unit: 5 km/h(MPH)
Target distance timer	Setting range: 50~1,000 M (1/32~20/32 mile) Setting unit: 50 M (1/32 mile)
Top speed timer	The record including, 1.Speed: 0~360 km/h (0~223 MPH) 2.Distance: 0~999 M (0~3280 feet) 3.RPM: 0~15,000 RPM 4.Timer: 0~9:59.99 second.
Supply voltage	**DC 12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203
Meter size (W X L X H)	151.8 X 81.5 X 52.5 mm
Meter weight	Around 212 g
Telltales	Repeater (Green) / Neutral (Green) High beam (Blue) / EOBD (Amber) Oil (Red) / Speeding (Red) RPM shift light (Yellow / Red)

GP style

E-mark approval

RX2

With the unique light tachometer, you could tell the RPM much easier than ever. The light point will show you the MAX RPM you reached all the time. We also provide you the chance to choose the back light you prefer so it will be more personalized. With the MAX power test , you could check the top speed your machine could reach and the time & distance you need to reach it.
The target distance test provides you the chance to see how fast you are and how much time you need to reach at a limited distance.
The target speed test provides you the information of how much distance you need to reach the speed you set and how long it takes.
It is just like you have a DYNO on your machine for you to adjust your machine. Are you ready to join the race?

Shift light
- Setting range: 5,000~15,000 RPM.
- Setting unit: 100 RPM.

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

Target speed test

Target distance test

MAX record

Item number
Back light color Display range Panel color

★BA01000 1★
Blue 0~15,000 RPM Black

Option accessory

Kawasaki NINJA 250R
★BE005K00★
Model RX2

Plug & Play Kit
Kawasaki NINJA 250R
★B0012001★
Model RX2

Plug & Play Kit
Kawasaki NINJA 250R(FI)
★B0012000★
Model RX2

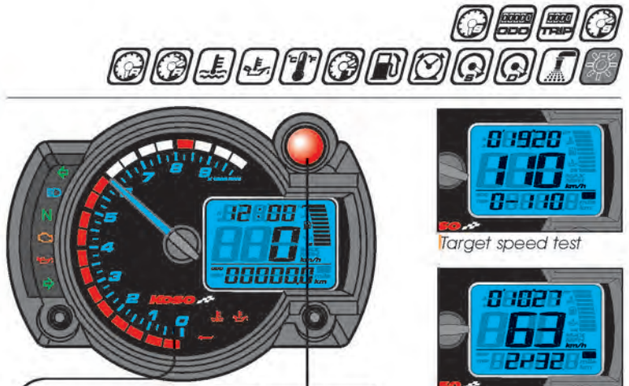
●Speedometer	Display range: 0~360 km/h (0~223 MPH) Display unit: km/h & MPH for alternative
○Display internal	<0.5 second
○Odometer	Display range: 0~99999.9 km (mile), reset automatically after 99999.9 km (mile) Display unit: 0.1 km (mile)
○Trip meter A/B	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
○Speeding warning light	Setting range: 30~180 km/h (20~110 MPH) Setting unit: 5 km/h (MPH)
○Top speed record	Display range: 0~360 km/h (0~223 MPH)
○Tire circumference	Setting range: 300~2,500 mm Setting unit: 1 mm, Pulse setting: 1~60
●Tachometer	Display range: 0~15,000 RPM Display unit: 100 RPM
○Display internal	<0.5 second
○Shift light	Setting range: 5,000~15,000 RPM Setting unit: 100 RPM
○MAX RPM record	Display range: 0~15,000 RPM
○Stroke / piston setting	2 Stroke: 1, 2, 3, 4 pistons 4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
●Thermometer	Display unit: °C & °F for alternative
●Digital thermometer (Water & oil temperature)	Display range: 0~120°C (32~248°F) Display unit: 0.1°C (°F)
●Thermometer level (Water temperature)	Display range: 20~120°C (68~248°F), 10 segment bar graph Display unit: 10°C (50°F) for each segment
○Display internal	<0.5 second
○Temperature alarm (Water & oil temperature)	Setting range: 60~120°C (140~248°F) Setting unit: 1°C (°F)
○Top temperature record	Display range: 0~120°C (32~248°F)
●Fuel level	Display range: 10 segment bar graph Display unit: 10 % for each segment Setting range: 100 Ω, 510Ω, 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.RPM: 0~15,000 RPM 4.Timer: 0~9'59"99 second.
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203
●Meter size (W X L X H)	151.8 X 81.5 X 52.5 mm
●Meter weight	Around 305 g
●Telltales	N Repeater (Green) Neutral (Green) High beam (Blue) EOBD (Amber) Oil (Red) Speeding (Red) RPM shift light (Yellow / Red)

GP style

E-mark approval

RX2N+

With the unique light tachometer you could see the RPM much easier in the night.
The light point will show you the MAX RPM you reach all the time.
With the settable shift light function, you could make the setting according to your riding habit. The 0~10,000 RPM & 0~20,000 tachometer versions made for the sport bike which could reach over 18,000 RPM sometimes or cruiser & ATV which reaches around 8,000 RPM at most time.
Looking for a nice meter with the best RPM range? The RX2N is made for the bike paranoid get the RX2N and then enjoy your riding with it!

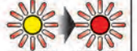


Target speed test

Target distance test

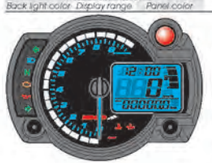
MAX record

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.

Item number
Back light color Display range Panel color



Blue 0~10,000 RPM Black

Blue 0~10,000 RPM White

Blue 0~20,000 RPM Black

Blue 0~20,000 RPM White

8 color 0~20,000 RPM Black

8 color 0~10,000 RPM Black

Speedometer	Display range: 0~360 km/h (0~223 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)
Speeding warning light	Setting range: 30~180 km/h (20~110 MPH) Setting unit: 5 km/h (MPH)
Top speed record	Display range: 0~360 km/h (0~223 MPH)
Tire circumference	Setting range: 300~2,500 mm Setting unit: 1 mm, Pulse setting: 1~60
Tachometer	Display range: 0~10,000 /20,000RPM 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 (Water & oil temperature)	Display range: 0~250°C (32~482°F) Display unit: 0.1°C (°F)
Thermometer level (Water temperature)	Display range: 20~120°C (68~248°F), 10 segment bar graph Display unit: 10°C (50°F) for each segment
Display internal	<0.5 second
Temperature alarm (Water & oil temperature)	Setting range: 60~250°C (140~482°F) Setting unit: 1°C (°F)
Top temperature record	Display range: 0~250°C (32~482°F)
Fuel level	Display range: 10 segment bar graph
Fuel meter	Display unit: 10 % for each segment Setting range: 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.RPM: 0~10,000 / 20,000 RPM 4.Timer: 0~9'59"99 second.
Supply voltage	**DC 12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	135.7 X 100.7 X 52 mm
Meter weight	Around 240 g
Telltales	High beam (Blue) Repeater (Green) N Neutral (Green) EOBD (Amber) Oil (Red) Speeding (Red) RPM shift light (Yellow / Red) Temperature alarm (Red) Temperature alarm (Red)

E-mark approval

DB-01R

Why KOSO never make a nice speedometer for the enduro?
We heard from you, and that's why KOSO start to introduce the DB (Dirt bike) series meter from the end of 2007.
A very simple and small speedometer with bar tachometer designed for the Enduro with E-mark homologated!
Are you looking for a nice & tiny speedometer for your dirt bike?
Take the KOSO DB-01R and enjoy the dirt.
This is a new series designed for the dirt bike, and we will introduce you more DB series meter in the coming 2009
Let's wait to see what KOSO will bring you.

●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 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 range: 300~2,500 mm Setting unit: 1 mm • Pulse setting: 1~60
●Tachometer	Display range: 0~15,000 RPM Display unit: 500 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
●Fuel level	Display range: 5 segment bar graph Display unit: 20 % for each segment Setting range: 100Ω, 510 Ω, no display
○Insufficient fuel warning	The fuel symbol will flash when the fuel is less than 20 %
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size (W X L X H)	119.8 X 44 X 49.5 mm
●Meter weight	Around 90 g
●Telltales	N Neutral (Green) High beam (Blue) Repeater (Green) Oil (Red)

Item number
Back light color Display range Panel color

Blue 0~15,000 RPM Black

NEW !

●Speedometer	Display range: 0~360 km/h (0~224 MPH) Display unit: km/h & MPH for alternative
○Display internal	<0.5 second
○Odometer	Display range: 0~99999 km (mile), reset automatically after 99999 km (mile). Display unit: 0.1 km (mile)
○Trip meter A/B	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
○Tire circumference	Setting range: 300~2,500 mm Setting unit: 1 mm Sensitive point: 1~20
●Bar graph tachometer	Display range: 10,000, 12,000, 15,000 RPM Display unit: 500 RPM
○Display internal	<0.5 second
○RPM input pulse	Range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6
●Fuel meter	Display range: 6 levels Display unit: Each level represents 16.6 % Setting range: 100Ω ,250Ω ,510Ω ,1200Ω
○Insufficient fuel warning	Display range: The fuel reserve symbol begins to flash if only 1 grids left When Stage 0, the fuel indicator will light up
●**Supply 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
●Telltales	N Neutral (Green) ; High beam (Blue) Direction (Green) ; Fuel (Yellow) Oil (Red) ; EOBD (Amber)

Item number
Back light color Display range Panel color

blue 0~15,000 RPM Black

E-mark approval

DB-01R+

The DB01R+ is an upgraded design for the DB01R with 2 more telltales for the new FI bike. The meter comes with the bigger LCD display, so the information is easier to see during the riding. The new meter also comes with 2 different backlights, so you could adjust the backlight color according to your preference.

E-mark approval

DB-02 OFF-ROAD VERSION

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 speedometerto digital tachometer when you want to use the meter on the race.

3 stages RPM shift lightt
- Setting range: 5,000~20,000 RPM
- Setting unit: 100 RPM

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

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

Speeding warning light

Temperature alarm

Max. record

Item number

Back light color Display range Panel color

Attention!

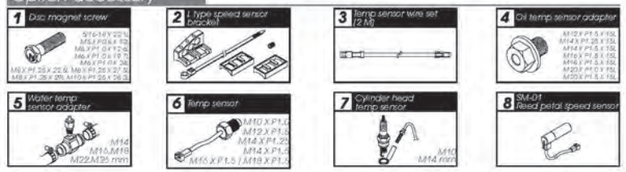
*B A 0 2 2 W 0 0 *

White 0~20,000 RPM Black

*B F 6 5 0 J 0 2 *

DB02 ONLY Black

Option accessory



Temperature alarm A/B
- Display range: 60~250°C (140~482°F)
- Display unit: 1°C (°F).

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

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

Clock
- 24 H

Target Speed timer test

Target distance timer test

Top speed test

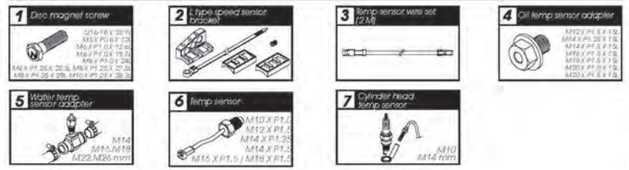
Item number

Back light color Display range Panel color

*B A 0 2 2 W 1 0 *

White 0~20,000 RPM Black

Option accessory



E-mark approval

DB-02R Race version

The new DB-02R is designed for the street bike with battery.
With the elegant white back light, 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) Display unit: 1 km (mile)
Trip meter A/B	Display range: 0~999.9 km (mile), reset automatically after 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)
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 Display unit: DC 0.1 V
Back light	DC 12V
Battery type (LCD display)	CR 2032
Battery life time	Around 220 hours nonstop
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size	100 X 60 X 20 mm
Meter weight (W X L X H)	Around 200 g
Telltales	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) Display unit: 1 km (mile)
Trip meter A/B	Display range: 0~999.9 km (mile), reset automatically after 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)
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: 100Ω, 510Ω, 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: 0~9'59"99 second.
Supply voltage	**DC 12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size	100 X 60 X 20 mm
Meter weight (W X L X H)	Around 200 g
Telltales	Speeding (Red) Temperature alarm A/B (Red) RPM shift light A (Yellow) RPM shift light B (Orange) RPM Shift light (Red)

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

Item number (Back light color / Display range / Panel color)

*B A 0 2 2 0 0 0 * Black

Option accessory

*B 0 0 1 3 G 0 0 * Green / Black	*B 0 0 1 3 G 0 2 * Green / Black	*B 0 0 1 3 R D 1 * Red / Black
*B 0 1 3 B D 0 * Blue / Black	*B 0 0 1 3 G 0 3 * Green / Black	*B 0 0 1 3 Y D 0 * Yellow / Black
*B 0 0 1 3 R D 2 * Red / Black	*B 0 0 1 3 G 0 4 * Green / Black	*B 0 0 1 3 R D 4 * Red / Black
*B 0 0 1 3 0 0 0 * Orange / Black	*B 0 0 1 3 R 0 0 * Red / Black	*B 0 0 1 3 R D 3 * Red / Black
*B 0 0 1 3 K 0 0 * Black / Black	*B 0 0 1 3 Y D 1 * Orange / Black	*B 0 0 1 3 R D 5 * Red / Black

THE PLUG-IN INDICATOR KIT FOR DB02 & DB02R

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

E-mark approval

XR-SA

The speedometer with E-mark homologation is designed for the ATVS, and fit on motorcycles and scooters.
We will start to provide you the speedometer with km/h & MPH changeable function, and the new tire circumference adjust program from now on.
With this new function, the meter will be much easy for you to use it.
The 5 indicator lights could also adjust for special customer demands. With 3 special brackets, the meter is very easy to install.

●Speedometer	Display range: 0~199 km/h (0~123 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	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
●Fuel level	Display range: 15 segment bar graph Display unit: 6.6 % for each segment Setting range: 100Ω
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size (W X L X H)	82.2 X 83.1 X 28.8 mm
●Meter weight	Around 152 g
●Telltales	Repeater (Green) N Neutral (Green) High beam (Blue) Oil (Red)

Item number
Back light color Display range Panel color

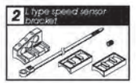
★BB007B16★ Blue 0-199 km/h Black

★BB007B02★ Blue 0-199 km/h

★BB007B52★ Blue 0-199 km/h

Option accessory

1 Disc magnet screw


2 L type speed sensor bracket

3 Meter bracket (For handle switch)

4 Meter bracket (For stem)

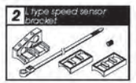
●Speedometer	Display range: 0~360 km/h (0~223 MPH) Display unit: km/h & MPH for alternative
○Display internal	<0.5 second
○Odometer	Display range: 0~99999 km (mile), reset automatically after 99999 km (mile) Display unit: 0.1 km (mile)
○Trip meter	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
●Fuel level	Display range: 15 segment bar graph Display unit: 6.6 % for each segment Setting range: 100Ω
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size (W X L X H)	77.2 X 68.6 X 28.0 mm
●Meter weight	

Item number
Back light color Display range Panel color

★BB006B01★ Blue

Option accessory

1 Disc magnet screw


2 L type speed sensor bracket

3 Meter bracket (For handle switch)

4 Meter bracket (For stem)

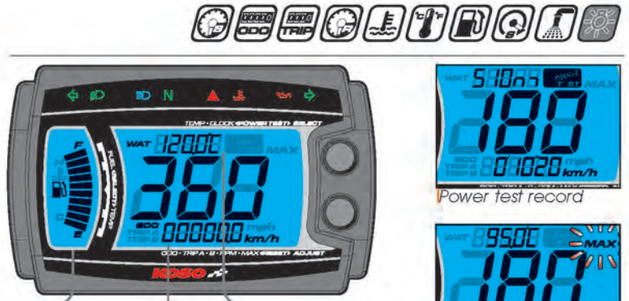
E-mark approval

XR-S

The speedometer with E-mark homologation is designed for the atvs, and fit on motorcycles and scooters.
We will start to provide you the speedometer with km/h & MPH changeable function, and the new tire circumference adjust program from now on.
With this new function, the meter will be much easy for you to use it.
Without the indicator light, the meter is much smaller and easy for you to install it. For solving the installation problem, we also provide you 2 universal brackets for you to fix it on your atvs.

XR-SRN

The new multifunction speedometer designed for the ATV. The tachometer provides you the information about your engine situation all the time.
The 8 indicator light design could fit most of the ATV without any problem.
A new and nice shape to make your ATV looks more special.
If you have a original fuel gauge, we could display the fuel on the meter.
If not, you could choose the clock and temperature for your personal demands. Just try to think about different way and make things fun.



Power test record

MAX record

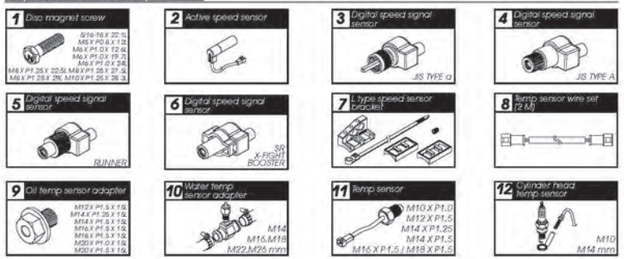
Tachometer
- Display range: 0~18,000 RPM.
- Display unit: 100 RPM.

Clock
- 24H

Level thermometer
- Display range: 20~120°C (68~248°F), 10 levels.
- Display unit: Each level represents 10°C (50°F).

Item number
Back light color Display range Panel color

Option accessory



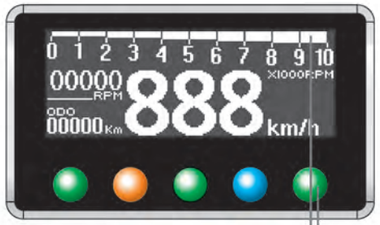
Speedometer	Display range: 0~360 km/h (0~223 MPH) Display unit: km/h & MPH for alternative
Display internal	<0.5 second
Odometer	Display range: 0~99999.9 km (mile), reset automatically after 99999.9 km (mile) Display unit: 0.1 km (mile)
Trip meter A/B	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
Top speed record	Display range: 0~360 km/h (0~223 MPH)
Tire circumference	Setting range: 300~2,500 mm Setting unit: 1 mm• Pulse setting: 1~6
Tachometer	Display range: 0~18,000 RPM Display unit: 100 RPM
Display internal	<0.5 second
MAX RPM record	Display range: 0~18,000 RPM
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
Display internal	<0.5 second
Temperature alarm (Water & oil temperature)	Setting range: 60~250°C (140~482°F) Setting unit: 1°C (°F)
Top temperature record	Display range: 0~120°C (32~248°F)
Fuel level	Display range: 10 segment bar graph Display unit: 10 % for each segment Setting range: 100 Ω, 510 Ω, no display
Clock	24H
Top speed timer	The record including, Speed : 0~360 km/h (0~223 MPH) Distance : 0~999 M (0~3280 feet) Timer : 0~9'59"99 second
Supply voltage	**DC 12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	116.3 X 72.4 X 32.3 mm
Meter weight	Around 286 g
Telltales	Repeater (Green) Low beam (Green) High beam (Blue) Neutral (Green) Hazard (Red light) Temperature alarm (Red) Oil (Red)

E-mark approval

D1-OLED

The new D series is designed for the passionate custom biker who put only the special parts on the bike. With the new OLED technology, the meter comes with a super slim design and advanced feature. Besides the shape, the dot matrix display could bring you more information than any similar size meter available in the world. The D1 meter is the perfect meter made for your unique custom bike.

NEW !



Tachometer
- Display range: 0~10,000 RPM.
- Display unit: 100 RPM.

Repeater(R) EOBD Neutral High beam Repeater(L)

Item number
Back light color | Display range | Panel color

*B A 0 3 2 0 0 0 *
0~15,000 RPM | Black

Option accessory

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)
Tachometer	Display range: 0~10,000 RPM Display unit: 100 RPM
Display internal	<0.5 second
Supply voltage	**DC 12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	45.5 X 26.5 X 9.5 mm
Meter weight	Around 240 g
Telltales	High beam (Blue) Repeater (Green) Neutral (Green) EOBD (Amber)

ND-01

The speedometer is designed for the scooter & moped.
The ND-01 comes with a 80 mm needle meter and 81 X 39 mm LCD design which could offer the customer the moving feeling through the needle and more information on the LCD as the new generation trend is now.
Except that, the meter comes with 11 telltales and could be adjusted according to the manufacturer's demand.
All the functions could be re-designed and modified according to the customer's design.

●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	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
●Tachometer	Display range: 0~15,000 RPM Display unit: 100 RPM
○Display internal	<0.5 second
●Fuel meter	Display range: 10 segment bar graph Display unit: 10 % for each segment
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203
●Meter size (W X L X H)	233.5 X 118.3 X 53.6 mm
●Meter weight	
●Telltales	Repeater (Green) High beam (Blue) N Neutral (Green) 1 Gear 1 light (Amber) 2 Gear 2 light (Amber) 3 Gear 3 light (Amber) 4 Gear 4 light (Amber)

Item number
Back light color Display range Panel color

★BA017B70★
Blue 0~15,000 RPM Black

●Speedometer	Display range: 0~199 km/h (0~123 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	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
●Tachometer	Display range: 0~12,000 RPM Display unit: 100 RPM
○Display internal	<0.5 second
●Fuel meter	Display range: 10 segment bar graph Display unit: 10 % for each segment
●Clock	24H
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size (W X L X H)	233 X 153 X 46.8 mm
●Meter weight	
●Telltales	High beam (Blue) Repeater (Green) Engine stop (Red) Oil (Red) EOBD (Amber)

Item number
Back light color Display range Panel color

★BA019030★
Oringe 0~12,000 RPM Black

ND-02

The speedometer is designed for bigger engine scooter or moped.
The ND-02 comes with a 72 mm needle meter and 72 mm LCD design which could offer the customer the moving feeling through the needle and more information on the LCD as the new generation trend is now.
Except that, the meter comes with 5 telltales and could be adjusted according to the manufacturer's demand.
All the functions could be re-designed and modified according to the customer's design.

ND-03

The ND-03 meter is the latest meter designed for the small and middle size sporty scooter. The meter comes with the needle driven by the stepper motor, the round shape LCD display, and 5 telltales. The meter function could be adjusted according to the demand of customers for purpose, so it will fit your own designed scooter easily.

NEW !

●Speedometer	Display range: 0~80 km/h (0~50 MPH) Display unit: 10km/h (MPH)
○Refresh timing	<0.5 second
○Odo	Display range: 0~99999.9 km (mile)
○Trip A	Display range: 0~999.9 km (mile)
○Trip B	Display range: 0~999.9 km (mile)
●Clock	24H
●Fuel meter	Display range: 10 grids (Each grid represents 10%)
○Insufficient fuel warning	The fuel reserve symbol begins to flash if only 3 grids left
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size (W X L X H)	235.7 X 125.9 X 51.2 mm
●Meter weight	Around 383 g
●Telltales	Repeater (Green) Oil (Red) High beam (Blue)

Item number
Back light color Display range Panel color

*B A 0 4 0 0 0 0 *
Blue 0~80 Km/h Black

*B A 0 4 0 1 0 0 *
Blue 0~140 Km/h Black

●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	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
○Top speed record	Display range: 0~360 km/h (0~223 MPH)
●Tachometer	Display range: 0~18,000 RPM Display unit: 10 RPM
○Display internal	<0.5 second
○MAX RPM record	Display range: 0~18,000 RPM
●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 S2
●Meter size (W X L X H)	127.6 X 80 X 35.9 mm
●Meter weight	
●Telltales	Repeater (Green) High beam (Blue) Temperature alarm (Red) R Reverse (Red) N Neutral (Green) D Drive (Green) 1 Gear 1 (Green)

Item number
Back light color Display range Panel color

*B B 0 2 0 B 5 0 *
Blue 0~18,000 RPM Black

BC-SA

The speedometer comes with the tachometer function inside.
The very simple shape design could fit on different style ATV very well.
The 8 telltales on the meter could be modified according to your special demands.
The LCD function could be changed according to your demands, too.
If you are interested in the meter, please contact us to get more information for it.

DBR

The DBR meter is designed for the enduro and comes with all the functions you need.
The full LCD design comes with a digital speedometer which is easy for you to see when riding.
The bar graphic tachometer creates the same movement feeling as the traditional needle driving tachometer. All the functions could be adjusted according to the customer's request.

●Speedometer	Display range: 0~130 km/h (0~80 MPH) Display unit: km/h & MPH for alternative
○Display internal	<0.5 second
○Odometer	Display range: 0~99999.9 km (mile), reset automatically after 99999km (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 range: 1,000~2,500 mm
●Tachometer	Display range: 0~12,000 RPM
●Lap time	0'00"~23'59"
●Clock	24 H
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203
●Meter size (W X L X H)	254 X 164.7 X 39.4 mm
●Meter weight	
●Indicator light color	N Neutral (Green) ⇔ Repeater (Green) Oil (Red) HD High beam (Blue) Temperature alarm (Red) LD Low beam (Green)

Item number
Back light color Display range Panel color

*B A 0 1 2 B 0 0 *
Blue 0~12,000 RPM

●Speedometer	Display range: 0~199 km/h (0~123 MPH) Display unit: 1km/h (MPH)
○Refresh timing	<0.5 second
○Odo	Display range: 0~99999 km (mile)
○Trip A	Display range: 0~999.9 km (mile)
○Trip B	Display range: 0~999.9 km (mile)
○Tire Setting	Setting range: 1,000~2,500 mm Setting unit: 1mm · 1~60 points
●Tachometer	Display ranget: 0~12,000 RPM Display unit: 10 RPM
○Refresh timing	<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
●Fuel meter	Display rage 5 segment bar graph
○Fuel resister	100Ω · E510Ω · no display
●Clock	24H
●Engine hour meter	Display range: 0.0~999.9 H Display unit: 0.1 H
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 5601
●Meter size (W X L X H)	190 X 85 X 35 mm
●Meter weight	Around 316.5 g
●Telltales	⇔ Repeater (Green) Fuel (Yellow) Oil (Red) N Neutral (Green) HD High beam (Blue) Temperature larm (Red) P Park (Red) R Reverse (Red) D Drive (Green) L Low (Yellow)

Item number
Back light color Display range Panel color

*B B 0 1 9 0 0 1 *
Blue Black

BB-SA

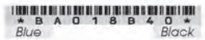
The new speedometer is designed for big engine ATV, with 88 X 46 mm LCD on it.
The nice shape could fit on the sport & utility ATV well.
To match the demand of the new generation ATV, the meter comes with 10 telltales and could be adjusted to fit different demands.
The meter is ready and could be modified according to the customer's requirement and demands.

DB-01

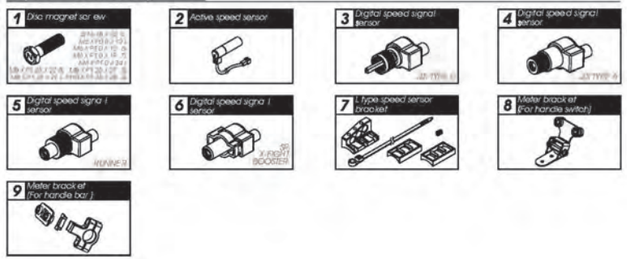
The DB-01 is designed for the sport ATV, motocross and off-road bike.
With a very tinny size and very sporty shape, the DB-01 could fit your new generation design ATV & bike very well.
With 4 telltales could be adjusted according to different demand and requirement.
If you are interested in the new DB01, please feel free to contact us for the details.
Except that, the LCD and meter function also could be adjusted according to your demand.

●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	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
●Thermometer level	Display range: 20~120°C (68~248°F), 5 segment bar graph Display unit: Each level represents 20°C (100°F)
○Display internal	<0.5 second
○Temperature alarm	When the temperature is over 120°C (248°F)
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size (W X L X H)	119.8 X 44 X 49.5 mm
●Meter weight	Around 90 g
●Indicator light color	N Neutral (Green) High beam (Blue) Repeater (Green) Temperature larm (Red)

Item number
Back light color Display range Panel color



Option accessory



NEW !

●Speedometer	Display range: 0~199 km/h (0~124 MPH) Display unit: km/h & MPH for alternative
○Odometer	Display range: 0~99999.9 km (mile), reset automatically after 99999.9 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 range: 300~2,500 mm Setting unit: 0.1 km (mile) ; Pulse setting: 1~20
●Tachometer	Display range: 0~12,000 RPM Display unit: 200 RPM
●Fuel meter	Display range: 6 levels
○Insufficient fuel warning	The fuel symbol will flash when the fuel is less than 20%
●Clock	24H
●**Supply 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 116 g
●Indicator light color	N Neutral (Green) High beam (Blue) Repeater (Green) Temperature alarm (Red) EOBD (Amber) Oil (Red)

Item number
Back light color Display range Panel color

Option accessory

DB-01+

GP style

RX1NR

Most of the tachometers designed for race is digital, and many racers really want to have a big tachometer works in needle for them to check the RPM easily during the race. Now KOSO bring you the new race RX1NR with the 64 mm needle tachometer driven by the stepper motor with real time respond, and a temperature meter for you to check the engine situation during the race. With the shift light and max record function, you could get all the information you need for race.
Get the new RX1NR to monitor your engine, and enjoy the race.

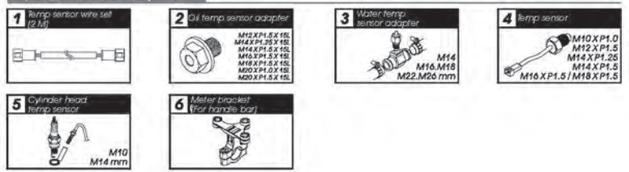
Shift light

●Tachometer	Display range: 0~16,000 RPM Display unit: 100 RPM
○Display internal	<0.5 second
○Shift light	Setting range: 3,000~16,000 RPM Setting unit: 100 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 range: 0~110°C Display unit: 1°C
●**BATTERY TYPE**	**9V-1604, 6LR61**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203
●Meter size (W X L X H)	151.8 X 81.5 X 52.5 mm
●Meter weight	Around 212 g

Item number
Back light color Display range Panel color

* B A 0 1 1 0 0 0 *
0~16,000 RPM Black

Option accessory



NEW !

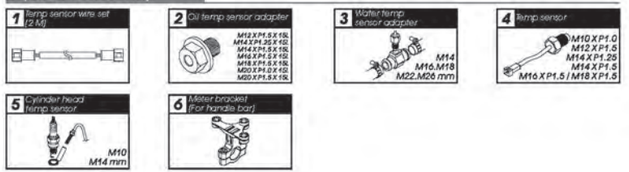
Shift light

●Tachometer	Display range: 0~16,000 RPM Display unit: 100 RPM
○Display internal	<0.5 second
○Shift light	Setting range: 5,000~16,000 RPM Setting unit: 100 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 range: 0~250°C (32~482°F) Display unit: 0.1°C (°F)
○Temperature alarm	Setting range: 60~250°C (140~482°F) Setting unit: 1°C (°F)
●**BATTERY TYPE**	**9V-1604, 6LR61**
●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
Back light color Display range Panel color

* B A 0 1 5 0 0 1 *
Blue 0~16,000 RPM White

Option accessory



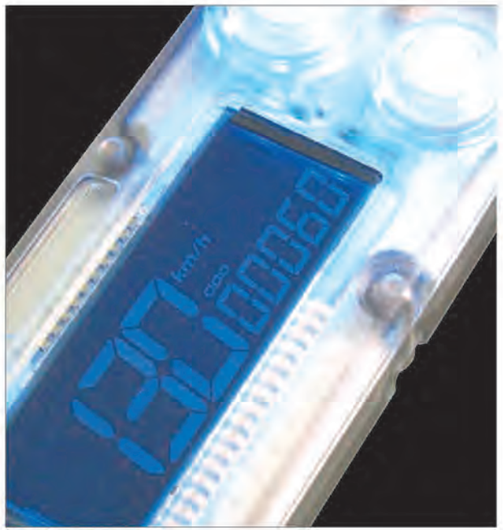
GP style

RX2NR+

If the RX1NR is still too small for you need please try the RX2NR. With the 80 mm needle tachometer driven by the stepper motor with real time respond, and a temperature meter, it will be easier for you to check the engine situation during the race. With the settable shift light and max record function, you could get all the information you need for race.
Get the new RX2NR to monitor your engine, and enjoy the race.
There are more and more racer practice in the night, so we heard the demand of backlight from the customers. For this reason, we make a upgraded on the RX2N 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.

POWER TEST

The speedometer is designed just for racing.
The POWER TEST functions could Provide you all the information you need for scooter-tunning.
The target distance test provides you the chance to practice for the drag race.
All you need is set the distance as the race, and then practice & adjust your scooter to the best situation.
The speed up test provides you the information about your speed up time. You could set it at different speed range to check how your scooter Perform such as 0~100 km/h, 30~80 km/h. With the 20 records, you could adjust The scooter and test without stop.
Don't tell us that you are ready for racing without our power test meter!!



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

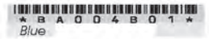
Speed up timing
- Start speed setting range: 0~355 km/h (0~215 MPH).
- Stop speed setting range:. 30~360 km/h (20~220 MPH)
- Setting unit: 5 km/h (MPH)
- **The minimum internal setting between stating speed and stop speed is 5 km/h (MPH)**
- Timing range: 0~ 9'59"99
- Record: 20 records

Speed up timing test

Target distance test

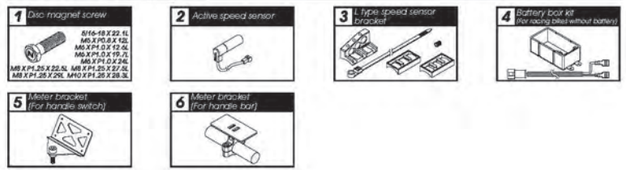
Top speed record

Item number
Back light color Display range Panel color



Blue

Option accessory



Speedometer	Display range: 0~360 km/h (0~223 MPH) Display unit: km/h & MPH for alternative
Display internal	<0.5 second
Odometer	Display range: 0~99999.9 km (mile), reset automatically after 99999.9 km (mile) Display unit: 0.1 km (mile)
Trip meter A/B	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
Top speed record	Display range: 0~360 km/h (0~223 MPH)
Tire circumference	Setting range: 300~2,500 mm Setting unit: 1 mm•Pulse setting: 1~60
Speed up timing	Start speed setting range: 0~355 km/h (0~215 MPH) Stop speed setting range: 30~360 km/h (20~220 MPH) Setting unit: 5 km/h (MPH) **The minimum internal setting between stating speed and stop speed is 5 km/h (MPH)** Timing range: 0~ 9'59"99 Record: 20 records
Target distance timing	Setting range: 50~1000 M (1/32~20/32 mile) Setting unit: 50 M (1/32 mile) Timing range: 0~ 9'59"99 Record: 20 records
Supply voltage	**9V-1604, 6LR61 (No back light) / 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

DUAL EGT

The EGT meter is the best tool for you to monitor your engine and the dual EGT meter is specially designed for the snowmobile or bikes with dual pipe system.
Checking the gas directly from the engine could help you understand your engine situation and avoid the engine troubles.
Remember to get the KOSO Dual EGT meter for your snowmobile or bikes before tuning up.

Temperature alarm

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

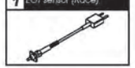
●Temperature A/B	Display range: 100~1,200°C (250~2,100°F) Display unit: 1°C (°F)
○Temperature alarm	Setting range: 200~1,000°C (392~1,832°F) Setting unit: 1°C (°F)
○Top temperature record	Display range: 100~1,200°C (250~2,100°F) Display unit: 1°C (°F), °C & °F for alternative
○ Display internal	<0.5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

Item number
Back light color Display range Panel color

* B A 0 D 6 B 6 2 *
Blue

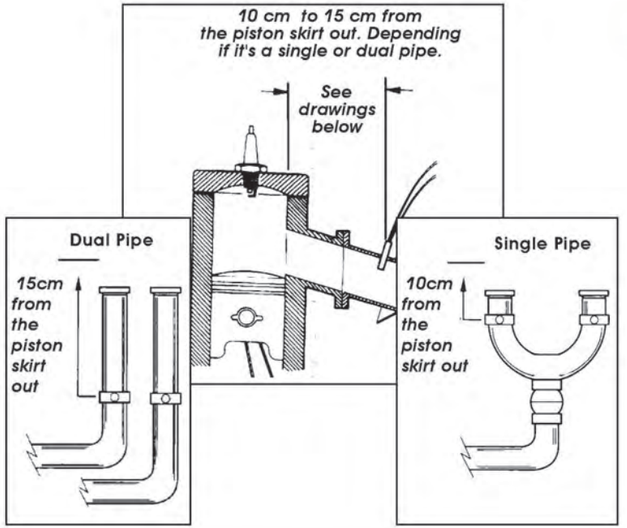
Option accessory

1 EGT sensor (Race)



2 EGT sensor bracket

3 Meter bracket (for handle bar)



EGT sensor

INSTRUCTIONS

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

EGT

The EGT meter is the best tool for you to monitor your engine situation.
Checking the gas temperature directly from the engine, you could know the situation of your engine is the temperature too hot to damage your engine?
For 2 stroke engine, there is no air/fuel ratio meter for you to adjust the carburetor and you could also check the air/fuel ration by the exhaust gas temperature.
If the mix ratio is not good, the engine will become very hot, and you could see it right away from the EGT meter.
Remember to get the KOSO EGT meter before tuning your engine!

Temperature alarm

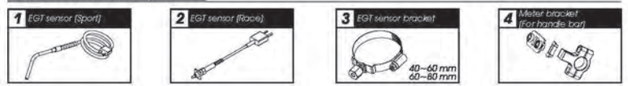
Switch °C to °F
●In main screen, press down the **Select button** to switch °C to °F.

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

Item number
Back light color Display range Panel color

★ B A 0 0 4 0 6 0 ★
Blue

Option accessory



Temperature alarm

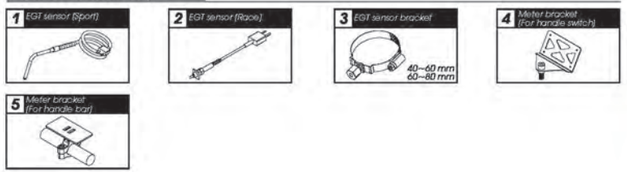
Switch °C to °F
●In main screen, press down the **Select button** to switch °C to °F.

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

Item number
Back light color Display range Panel color

★ B A 0 0 4 0 6 2 ★
Blue

Option accessory



EGT

The EGT meter is the best tool for you to monitor your engine situation.
Checking the gas temperature directly from the engine, you could know the situation of your engine is the temperature too hot to damage your engine?
For 2 stroke engine, there is no air/fuel ratio meter for you to adjust the carburetor and you could also check the air/fuel ration by the exhaust gas temperature.
If the mix ratio is not good, the engine will become very hot, and you could see it right away from the EGT meter.
Remember to get the KOSO EGT meter before tuning your engine!

GP style

X-1 Boost Gauge

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

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

Item number
Back light color Display range Panel color

N B A 0 2 9 0 0 0 N
White

Option accessory

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

Item number
Back light color Display range Panel color

N B A 0 2 9 0 0 1 N
White

Option accessory

GP style

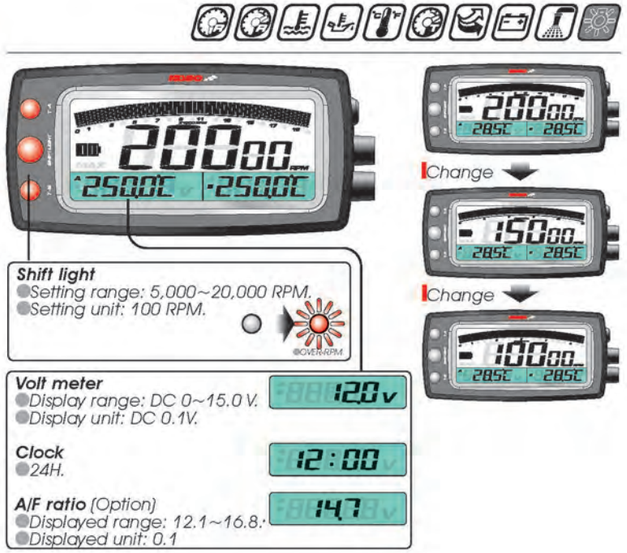
X-2 Boost Gauge

This new multi-function unit is a great tool for all horsepower enthusiast 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 trubo or supercharger.
The X-2 instrument will give you precious information to help you pull out more horsepower out of the engine or save it from bad damages.

Mini style

G2 REV. COUNTER

After 2 years development and research, we finished the all the rev. counter now.
With the bigger LCD, the new rev. counter could show you the engine revolution both in bar and digital.
The all new rev counter bar design is adjustable, so you could adjust the rev. counter range according to your engine.
Except the rev. counter, the G2 comes with 2 temperature meter, volt meter, and the clock function, so you could get almost all the information you need from your engine.
Except that, you could also purchased the optional O2 sensor and connect it to the temperature wire to get the air/fuel ratio information.
After all, the new G2 meter comes with the shift light and 2 temperature alarm light for you to make the setting and monitor your engine. Get the new G2 rev. counter, and join the race.



Item number	Back light color	Display range	Panel color
★BA023W00★	White	0~20,000 RPM	Black

Option accessory

1 Temp sensor wire set (2 M)
2 Oil temp sensor adapter — M12 X P1.5 X 15L; M14 X P1.25 X 15L; M14 X P1.5 X 15L; M16 X P1.5 X 15L; M18 X P1.5 X 15L; M20 X P1.0 X 15L; M20 X P1.5 X 15L
3 Water temp sensor adapter — M14, M16, M18, M22, M26 mm
4 Temp sensor — M10 X P1.0, M12 X P1.5, M14 X P1.25, M14 X P1.5, M16 X P1.5 / M18 X P1.5
5 Cylinder head temp sensor — M10, M14 mm
6 Meter bracket (For handle switch)
7 Meter bracket (For handle switch)

Digital tachometer	Display range: 0~20,000 RPM Display unit: 10 RPM
Tachometer level	Display range: 0~10,000 / 15,000 / 20,000 RPM for alternative Display range: 0~10,000 RPM, 60 segment bar graph Display unit: 166 RPM for each segment Display range: 0~15,000 RPM, 60 segment bar graph Display unit: 250 RPM for each segment Display range: 0~20,000 RPM, 60 segment bar graph Display unit: 333 RPM for each segment
Display internal	<0.5 second
Shift light	Setting range: 5,000~20,000 RPM Setting unit: 100 RPM
MAX RPM record	Display range: 0~10,000 / 15,000 / 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 A/B	Display range: 0~250°C (32~482°F) Display unit: 0.1°C (°F), °C & °F for alternative
Display internal	<0.5 second
Temperature alarm	Setting range: 60~250°C (140~482°F) Setting unit: 1°C (°F)
Top temperature record	Display range: 0~250°C (32~482°F)
A/F ratio	Displayed range: 12.1~16.8 Displayed unit : 0.1
Volt meter	Display range: DC 0~15.0 V Display unit: DC 0.1V
Clock	24 H
Back light	**DC 12 V**
Battery type (LCD display)	**CR 2032**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	87.2 X 43.6 X 20.3 mm
Meter weight	Around 82 g
Telltales	Temperature alarm (Red) RPM shift light (Red) Temperature alarm (Red)

Mini style

G1 REV. COUNTER (WITH BACK LIGHT)

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 back light power to your battery and enable the back light function.

Over heat warning

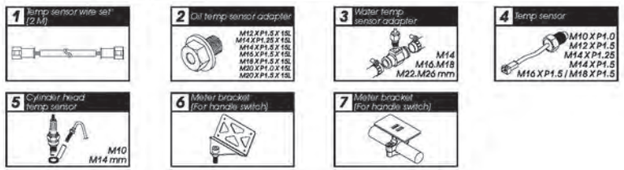
Shift light
- Setting range: 0~22,000 RPM.
- Setting unit: 100 RPM

Tachometer	Display range: 0~22,000 RPM Display unit: 100 RPM
Display internal	<0.5 second
Shift light	Setting range: 0~22,000 RPM Setting unit: 100 RPM
Stroke / piston setting	2 Stroke: 1, 2, 3, 4, 5, 6 pistons 4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
MAX RPM record	Display range: 22,000 RPM
Thermometer	Display range: -50~110°C (-58~230°F) Display unit: 0.1°C (°F), °C & °F for alternative
Temperature alarm	Setting range: 0~110°C (32~230°F) Setting unit: 1°C (°F)
Engine hour meter	Display range: 00:00~99 (H):59 (M), and then reset automatically (Reset able)
Back light	**DC 12 V**
Battery type (LCD display)	**CR 2032**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203
Meter size (W X L X H)	87 X 36 X 15 mm
Meter weight	

Item number
Back light color Display range Panel color

★BA003020★
Blue 0~22,000 RPM Black

Option accessory



Over heat warning

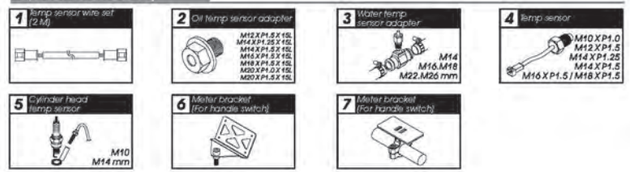
Over RPM warning
- Setting range: 0~22,000 RPM.
- Setting unit: 100 RPM.

Tachometer	Display range: 0~22,000 RPM Display unit: 100 RPM
Display internal	<0.5 second
Over RPM warning	Setting range: 0~22,000 RPM Setting unit: 100 RPM
Stroke / piston setting	2 Stroke: 1, 2, 3, 4, 5, 6 pistons 4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
MAX RPM record	Display range: 22,000 RPM
Thermometer	Display range: -50~110°C (-58~230°F) Display unit: 0.1°C (°F), °C & °F for alternative
Temperature alarm	Setting range: 0~110°C (32~230°F) Setting unit: 1°C (°F)
Engine hour meter	Display range: 00:00~99 (H):59 (M), and then reset automatically (Reset able)
Battery type	**CR 2032**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203
Meter size (W X L X H)	80 X 36 X 13.1 mm
Meter weight	

Item number
Back light color Display range Panel color

★BA003010★
0~22,000 RPM Black

Option accessory



Mini style

G1 REV. COUNTER

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.

THE WIDE BAND A/F RATIO

The meter is designed for using it on the 2 stroke race bike or the snowmobile for the customer to adjust the carburetor or the injection system.
The BOSCH wide band sensor is the best wide band sensor used on all the race track and testing laboratory.
The air/fuel ratio meter could show you the real time information at the shortest time.
Except that, you could also make the setting to warn you when the air/fuel ratio is too lean or too rich.

●A/F ratio	Displayed range: 10.0~24.0 Displayed unit : 0.1
○Over lean	Setting range: 14.8~24.00 Setting unit : 0.1
○Over rich	Setting range: 14.6~10.0 Setting unit : 0.1
○Display internal	<0.5 second
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size (W X L X H)	99.6 X 42.0 X 22.5 mm
●Meter weight	Around 85 g

Item number
Back light color Display range Panel color

Blue Black

Option accessory

1 Sensor adapter (For 2 strokes engine only)

Low voltage warning
●If the voltage is lower than 2.7 V, the LCD will display L-bat.
Please change the battery when you saw it.

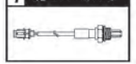
●A/F ratio	Displayed range: 12.1~16.8 Displayed unit : 0.1
●**Back light**	**DC 12V**
●**Battery type (LCD display)**	**CR 2032**
○Battery life time	Around 2,000 hours
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size (W X L X H)	61.7 X 33.7 X 15.6 mm
●Meter weight	Around 30 g

Item number
Back light color Display range Panel color

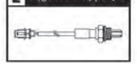
White Black

Option accessory

1 Oxygen sensor (Race)



2 Oxygen sensor (Sport)



Mini style

A/F RATIO

The air/fuel ratio meter is designed for the engine engineer or the motorcycle shop to adjust the carburetor or the fuel injection system when changing the engine parts.
The meter is power by the inner battery, so it is very convenient for you to use it as a tool.
If you want to monitor the air/fuel ratio all the time, you could also install the meter on your bike and connect the back light power to the battery on your bike to get the back light.

Mini style

THERMOMETER

The new thermometer is designed for both race and the street use.
The meter is powered by the inner battery, and the back light is powered by the outside battery.
In this case, you could install it according to your demands.
With the new temperature sensor and the new program, the meter could reach up to 250°C, so it is good enough for you to install it on your bike to get the water temperature, oil temperature or the cylinder head temperature.
Get the new KOSO thermometer to monitor your engine, and enjoy the riding.

Top temperature record
- Display range: 0~250°C (32~482°F)

●	Thermometer	Display range: 0~250°C (32~482°F) Display unit: 0.1°C (°F) for alternative
○	Top temperature record	Display range: 0~250°C (32~482°F)
●	**Back light**	**DC 12 V**
●	**Battery type (LCD display)**	**CR 2032**
○	Battery life time	Around 430 hours
●	Effective temperature range	-10~+60°C
●	Meter standard	JIS D 0203 S2
●	Meter size (W X L X H)	61.7 X 33.7 X 15.6 mm
●	Meter weight	Around 30 g

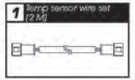
Item number

Back light color	Display range	Panel color
B	A	0 3 0 3 5

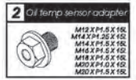
White / Black

Option accessory

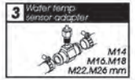
1 Temp sensor wire set (2 M)



2 Oil temp sensor adapter

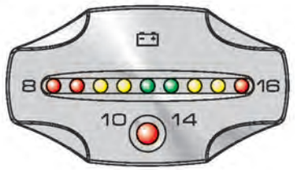


3 Water temp sensor adapter



4 Temp sensor

5 Cylinder head temp sensor



●	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

Back light color	Display range	Panel color
B	H	0 0 0 K 0
B	H	0 0 0 S 0

Black / Silver

Option accessory

Mini style

CNC VOLT

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

MINI 3

The new Mini3 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.

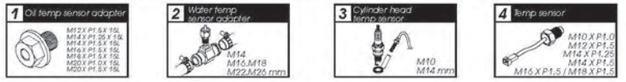
NEW !

Thermometer A. B
0~120°C (32~248°F)

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

Item number
Back light color Display range Panel color

Option accessory



Mini style

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 then you could know if the cooling system work properly.

The dual temperature meter is the best tool for you to check the temperature.

Mini style

OIL PRESSURE

The oil pressure meter is designed for you to monitor the oil quality and situation. When you changed the oil, the oil pressure should be higher. When the oil pressure is lower, it means that the oil quality is going down. In this case, the oil pressure meter could help you understand the timing to change the oil.
If you ride the bike in high RPM range, the oil pressure meter could help you understand if the oil did lubricate the engine properly. If the oil pressure doesn't go higher when the engine RPM goes higher, then you need to check if you need to change the oil to protect your engine.

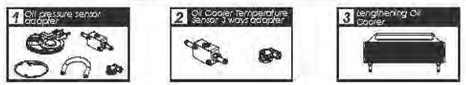
NEW !

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: 0.1PSI (kgf/cm²).
Oil pressure warning	Warning Range: When pressure below the setting value (included),the LCD display will flash to warn.
Effective voltage	**DC 12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	60 X 30 X 11.5 mm
Meter weight	Around 22g

Item number
Back light color Display range Panel color

Option accessory



NEW !

Amp meter	Volt meter
0~±30 A	DC 6.0~19.9 V
16.8A	12.3

Amp meter	Display range: 0~±30 A 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 8.0~13.0 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
Back light color Display range Panel color

Option accessory

Mini style

AMP & VOLT

The AMP & Volt meter is the best tool made for you to monitor the battery. When the battery is in good condition, the volt meter value will always higher than 12V, so when the volt is lower than 12V, it means that you need to check your battery. On the other side, if the volt is too higher, it means that something wrong with your regulator.
As for the amp meter, this function could help you to understand if the batter is charged properly. If the amp meter become minus or the amp value is too big, it means something wrong with the generator or your electrical system.
If you could use the amp with the volt information then you could find out when you have the problem with the battery or charging system on your bike.

Mini style

A/F RATIO

The all new design A/F ratio comes with the adapter wire which allows you to use the lambda sensor comes with the original bike. < the narrow band lambda sensor only.> With this design, you could catch the signal from the original sensor directly to shorten the installation time and the cost for the sensor.
For the bike without the lambda sensor, you could still purchase the lambda sensor as the option part to install the meter on your bike for catching the signal.

NEW !

The A/ F ratio is too rich	The A/ F ratio is too lean
-R-	-L-

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

Item number
Back light color Display range Panel color

*B A 0 0 3 2 1 0 *
White Black

Option accessory

NEW !

Temperature	Clock	Volt meter
°C & °F for alternative	24H	DC 6.0~19.9 V
29.0C	12:00	12.5

Temperature	Display unit °C & °F for alternative
Volt meter	Display range : DC 6.0~19.9 V Setting unit : 0.1 V
Low Voltage warning	Setting range : DC 8.0~13.0 V Setting unit : 0.1 V
Voltage warning	When the volt is below DC 11.5V or over 15.5V, the LCD display will flash to warn.
Effective voltage	**DC 12V**
Effective temperature range	-10~ +60°C
Clock	24H
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	60 X 30 X 11.5 mm
Meter weightg	Around 22g

Item number
Back light color Display range Panel color

*B A 0 0 3 1 3 0 *
White Black

Option accessory

Mini style

TEMP / CLOCK /VOLT

The meter is designed for you to do the basic checking before riding. The clock function is easy for you to check the time when you wear the glove, the air temperature is the reference for you to know how the weather before riding. With the volt function, you could also monitor the battery situation on your bike all the time.

The meter is the basic, but also the best tool for the biker who rides the bike as transport.

Mini style

CLOCK & VOLT

NEW !

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

Clock	24H
Volt meter	Display range: DC 6.0~19.9 V Display unit: 0.1 V
Low Voltage warning	Setting range: DC 8.0~13.0 V Setting unit: 0.1 V
Voltage warning	Warning Range: Below DC11.5v or over 15.5 V. Screen will flash to 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

Back light color Display range Panel color

White	Black
BA03161	

Option accessory

NEW !

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

Clock	24H
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

Back light color Display range Panel color

White	Black
BA03130	

Option accessory

Mini style

CLOCK

Mini style

RPM & HOUR

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!

NEW !

MAX RPM record
- Display range: 0~15,000 RPM
- Display unit: 100 RPM

Digital Tachometer	Display range: 0~15,000 RPM Display unit: 100 RPM
Display internal	< 0.5 second
RPM input pulse	Diplay 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	Dispaly range: 0.0~999.9 H ; Display unit: 0.1H
Effective voltage	**DC 12V**
Battery type	**CR 2032**
battery life time	About 350 H (when battery volume below 250 mAh)
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203
Meter size (W X L X H)	69.8 X 34.4 X 17.2 mm
Meter weight	Around 47.6g

Item number	Back light color	Display range	Panel color

White Black

Option accessory

NEW !

Hour meter A/B
- Display range: 0.0~999.9 H
- Display unit: 0.1 H

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

Item number	Back light color	Display range	Panel color

White Black

Option accessory

Mini style

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.

Super slim style

THERMOMETER

The super slim style series comes with the all new design meter case which is slim and water resistant.
The slim body design allows you to install the meter on the bike easily.
The digital display design offer you a precise information, so you could monitor your engine better.

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 Display unit : 1°C
○Temperature Warning	When the temperature is over 120°C., 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

●Thermometer	Display range : 32~248°F Display unit : 1°F
○Temperature Warning	When the temperature is over 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
Back light color / Display range / Panel color

BA024B10
Blue 0~120°C Black

BA024B11
Blue 32~248°F Black

Option accessory

Volt meter
- Display range : DC 8.0~18.0 V.
- Display unit : 0.1 V

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

●Volt meter	Display range : DC 8.0~18.0 V 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
Back light color / Display range / Panel color

BA024B00
Blue Black

BA024R00
Red Black

Option accessory

Super slim style

VOLT

The new super slim volt meter comes with the low voltage warning, so it will warn you when the battery is wrong.
The digital display is more precise than the traditional meter, and it will be easier for you to notice the problem of the battery in the very beginning.

Mini style

LAP TIMER

The lap timer is the newest product of Koso race line product. The lap timer could work on both the external button & the IR system, so you could use the meter to test even in the race track without IR system. The infrared beacon & IR transmitter is sold as a optional parts, so you could purchase it if the parts are needed.
The lap timer is developed to work with the inner battery, so you could use the meter even on the bike without battery. The white back light will be effective when you connect the external power, so even when you use the meter on the race in the night, you could also see the meter very clearly.

Current lap & time
Max recording time
- Display range: 9:59'59"

Max. lap
- Display range: 200 Laps

Max single lap time
- Display range: 99'59"99

Best lap & time difference

Previous lap & time difference

Descriptions of Lap number

Set the time interval of signal reception

View Single Lap Record Sorted by Order/Sorted by Best

Max recording time	Display range: 9:59'59"
Max. lap	Display range: 200 Laps
Max single lap time	Display range: 99'59"99
Lap time displayed	Setting range: 1~30 seconds.
Best lap	Display range: 200 Laps
IR Channel	Setting range: 0~9
Battery level	Display range: 4 segment bar graph
Battery type	**CR 2032**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (W X L X H)	87.2 X 43.6X 20.3 mm
Meter weight	Around 82 g
Telltales	Best lap checking light (Blue) Signal checking light (Red)

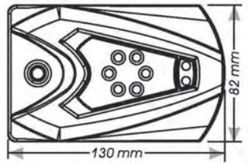
Item number
Back light color Display range Panel color

White Black

Option accessory

1 Meter bracket (For handle switch)

2 Meter bracket (For handle bar)

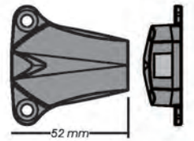


Turn On
Press and hold the power button and wait until the power indicator changes from blinking to staying on.

Turn Off
Press and hold the power button and wait until the power indica-or changes from blinking to off.

- Power Indicator (Red Light)
- Input Voltage Indicator (Blue Light)

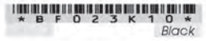
Battery (C/LR 14x4)	Power Indicator Off
External Power (DV 12V)	Power Indicator Always On
Working Voltage	Display range: 5V~13.5V 11~14.5V Full power—40m (Blue light on) <11 V Half power—20m (All light off) <4.9 V Low power—ineffective (Blue light flash) (Voltage tolerance ±0.5V)
Over voltage protection	To protect the beacon, it will switch off automatically when the voltage is over 14.5V, and the Indicator lights will be interactive flash.



Receiver size (W X L X H) 50 X 50.7 X 16.4 mm

Item number
Back light color Display range Panel color

Black

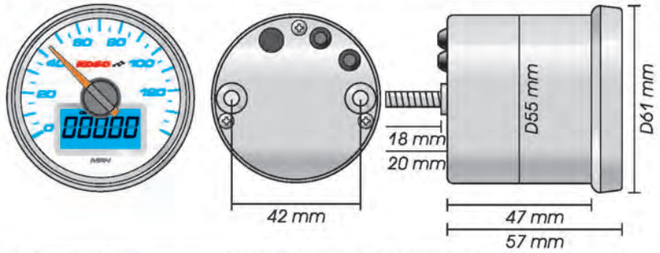


Black

GP style

HD-01S

To make a stylish meter for Harley is always our dream, and finally we did it this time.
The KOSO HD-01 speedometer is compatible with the original speed sensor.
All you need it to ride 1 mile or kilometer to get the correct setting for the speedometer, and then you could start to enjoy your riding.
With the chrome bullet case, the meter could fit almost all the Harley easily.
We also develop different handle bar kit for you to install the meter on your own handle bar.
Get the KOSO HD-01 meter and make your Harley more unique.

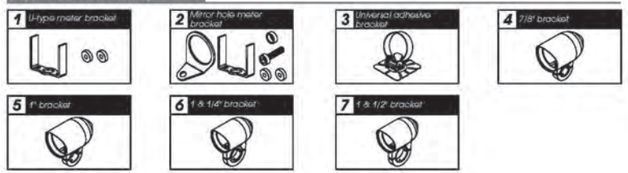


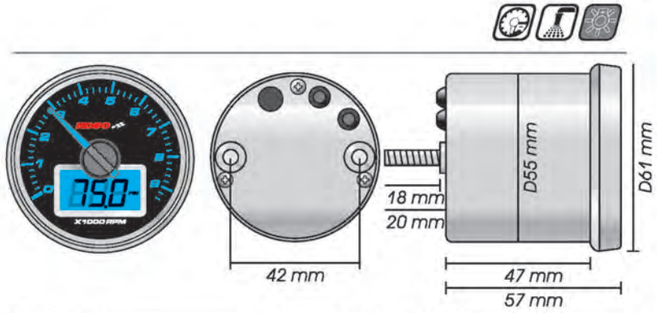
●Speedometer	Display range: 0~220 km/h (0~140 MPH) Display unit: MPH
○Display internal	<0.5 second
○Odometer	Display range: 0~99999 km (mile), reset automatically after 99999 km (mile) Display unit: 1 km (mile)
○Trip meter	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Display 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
Back light color Display range Panel color

Blue	0~140 MPH	White	
Blue	0~140 MPH	Black	
Blue	0~220 km/h	White	

Option accessory



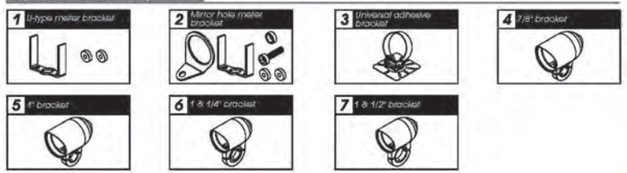


●Tachometer	Display range: 0~9,000 RPM Display unit: 100 RPM
○Display internal	<0.5 second
○Stroke / piston setting	2 Stroke: 1, 2, 3, 4 pistons 4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
●Oil press	Display range: 0~75 psi Display unit: 0.1 psi
○Display internal	<0.5 second
●**Supply voltage**	**DC 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
Back light color Display range Panel color

Blue	0~9,000 RPM	Black	
Blue	0~9,000 RPM	White	

Option accessory



GP style

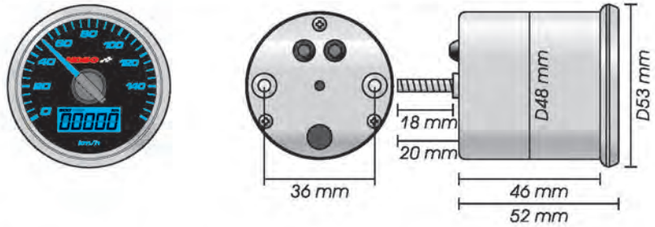
HD-01R

To make a stylish meter for Harley is always our dream, and finally we did it this time.
The KOSO HD-01 tachometer is designed especially for the Harley with the oil pressure meter compatible with the original oil pressure sensor.
We also add the warning function for the oil pressure, so it will warn you when the oil pressure is too high.
With the chrome bullet case, the meter could fit almost all the Harley easily.
We also develop different handle bar kit for you to install the meter on your own handle bar. Get the KOSO HD01 meter and make your Harley more unique.

GP style

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 steeper motor with the LCD into the tiny speedometer.
With the stepper motor and LCD, the new speedometer comes with the luminous needle and back light 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 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•Pulse setting: 1~60
●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
●Meter size (D X H)	D48 X 52 mm
●Meter weight	Around 132.2 g

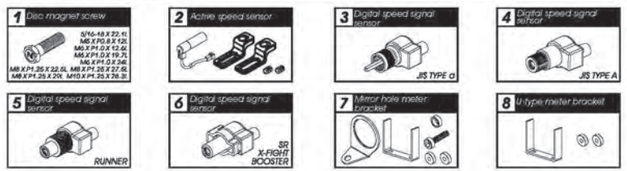
Item number
Back light color Display range Panel color

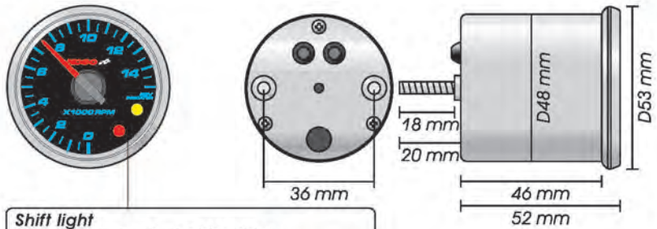
*B A 4 8 5 B 7 0 *
Blue 0~160 km/h Black

*B B 4 8 5 B 7 1 *
Blue 0~160 km/h Black

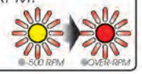
*B B 4 8 5 B 7 2 *
Blue 0~160 km/h White

Option accessory





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



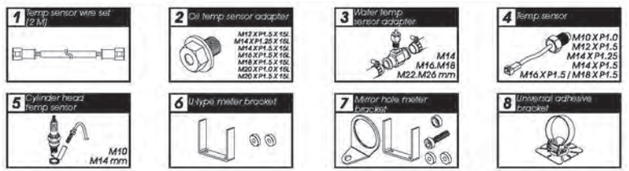
●Tachometer	Display range: 0~15,000 RPM Display unit: 500 RPM
○Display internal	<0.5 second
○Shift light	Setting range: 0~15,000 RPM Setting unit: 500 RPM
○MAX RPM record	Display range: 0~15,000 RPM
○Stroke / piston setting	2 Stroke: 1, 2 pistons 4 Stroke: 1, 2, 3, 4 pistons
●**Supply voltage**	**DC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

Item number
Back light color Display range Panel color

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

*B A 4 8 1 B 1 6 *
Blue 0~15,000 RPM White

Option accessory



GP style

D48 TACHOMETER

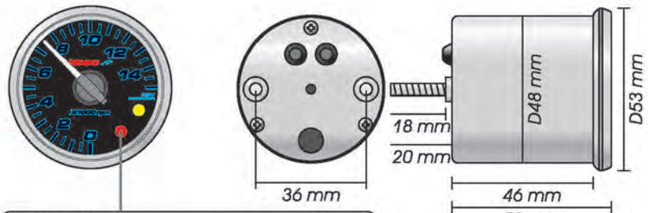
To make the needle stable for the high vibration situation, we adopt the stepper motor on all of our needle meter series.
With the auto-scan function, the meter will scan when you turn on your machine.
The 15,000 RPM tachometer with illuminated needle and dial is much easily for you to read in night.
Two colors for you to choose black look or the simple white meter face design with the red needle.
For fitting different models, we also provide you the set table tachometer with a shift light for another choice.

GP style

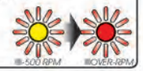
D48 TACHOMETER

The new GP II tachometer comes with the new stepper motor that upgrades the response speed of the needle & the stability to a new standard. The biggest improvement of the new tachometer is the response speed, the needle will move as fast as your throttle. With the new shift light design, the warning light will be easy to see under the sun.

NEW !



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



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

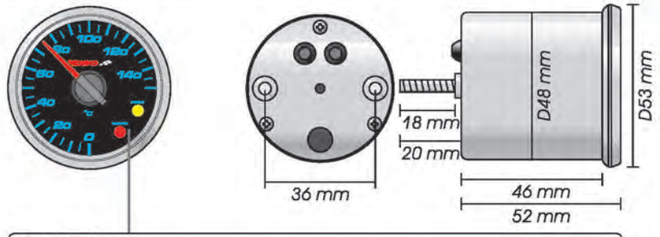
Item number

Back light color Display range Panel color

*B A 4 8 6 W 0 0 *

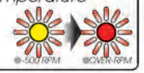
Blue 0~15,000 RPM Black

Option accessory



Peak light
- Use the "peak" button on the controller to get the top temperature recall or reset the record.

WARNING LIGHT
- To warn you of the engine exhaust temperature.



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

Item number

Back light color Display range Panel color

*B A 4 8 1 B 5 *

Blue 0~150°C Black

*B A 4 8 1 B 3 6 *

Blue 0~150°C White

Option accessory

GP style

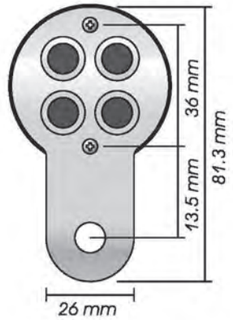
D48 THERMOMETER

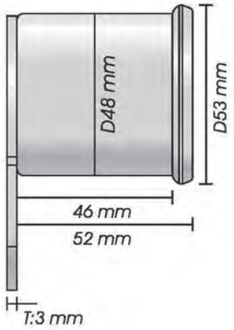
To make the needle stable for the high vibration situation, we adopt the stepper motor on all of our needle meter erles.
With the auto-scan function, the meter will scan when you turn on your machine.
The thermometer could reach 150°C, so it is enough for you to use it for checking the water temperature 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.

GP style

D48 TELLTALES METER

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

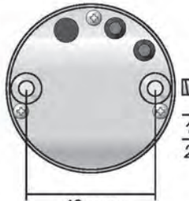


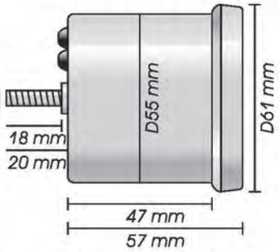


Telltales	High beam (Blue) Repeater (Green) N Neutral (Green) Oil (Red)
Bulb specification	**T5 / 2W**
Supply voltage	**DC 12V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203
Meter size (D X H)	D48 X 52 mm
Meter weight	Around 80 g

Item number
Back light color Display range Panel color

★BA48200★
Black





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
Back light color Display range Panel color

★BA551B22★
Blue 0~9,000 RPM Black

★BA551B20★
Blue 0~16,000 RPM Black

★BA551B23★
Blue 0~9,000 RPM White

★BA551B24★
Blue 0~16,000 RPM White

GP style

D55 TACHOMETER

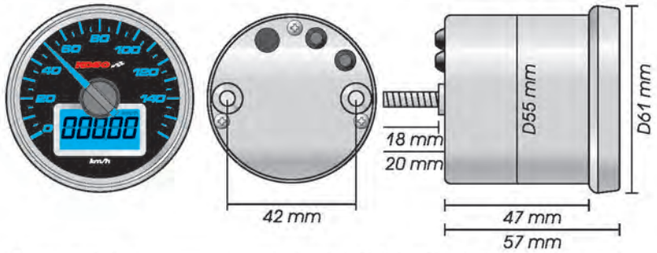
To make the needle stable for the high vibration situation, we adopt the stepper motor on all of our needle meter series.
With the auto-scan function, the meter will scan when you turn on your machine.
The up to 16,000 RPM tachometer with illuminated needle and dial is much easily for you to read in night.
With the setting program, you could adjust the setting to install it on different engines with the cdi ignition system.
The temperature gauge is for you to get the information about your engine.

GP style

E-mark approval

D55 SPEEDOMETER

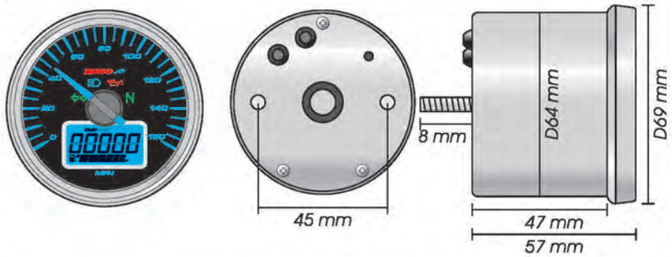
To make the needle stable for the high vibration situation, we adopt the stepper motor on all of our needle meter series.
With the auto-scan function, the meter will scan when you turn on your machine.
The illuminated needle design is much easily for you to read in night.
Two different speed ranges for you to choose depending on your bikes.
The 160 km/h dial for scooters & atvs, and the 260 km/h dial for motorcycles. Just pick the one you need and then enjoy your riding!



●Speedometer	Display range: 0~160 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: 0~2,999 mm Setting unit: 1 mm•Pulse setting: 1
●**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
Back light color Display range Panel color

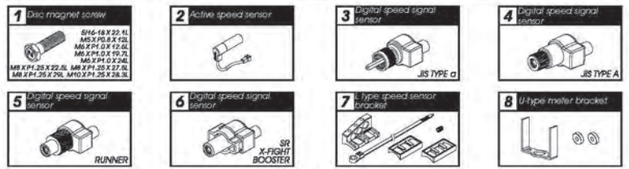
NEW !



●Speedometer	Display range: 0~160 MPH Display unit: 5 MPH
○Odo meter	Display range: 0~99999 mile , reset automatically after 99999 mile. Display unit: 1 mile.
○Trip meter	Display range: 0~999.9 mile , reset auto matically after 999.9 mile. Display unit: 0.1 mile.
○Tire circumfere	Setting range: 300~2,500 mm Setting unit: 1 mm • Sensor point: 1~60
●Fuel gauge	Display in 6 grids (Around 16% for each grid)
○Fuel resistance setting	100Ω, 510Ω
●**Effective voltage**	**DC 12 V**
●Meter size (D X H)	D64 X 57 mm
●Meter weight	Around 190 g

Item number
Back light color Display range Panel color

Option accessory



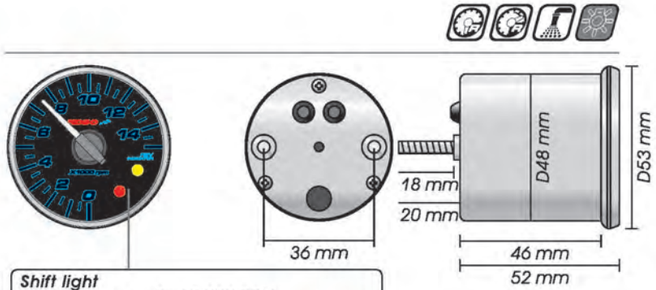
GP style

D64 GP STYLE SPEEDOMETER (MPH)

Eclipse style

D48 TACHOMETER

The new eclipse style is focused on the smoke lens design and the white LED back light using in the meter.
With the new design smoke lens, the meter will looks almost black when it is off, so no one could knows 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 internal	<0.5 second
○Shift light	Setting range: 0~15,000 RPM Setting unit: 500 RPM
○MAX RPM record	Display range: 0~15,000 RPM
○Stroke / piston setting	2 Stroke: 1, 2 pistons 4 Stroke: 1, 2, 3, 4 pistons
●**Supply voltage**	**DC 12 V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203
●Meter size (D X H)	D48 X 52 mm
●Meter weight	Around 117 g

Item number
Back light color Display range Panel color

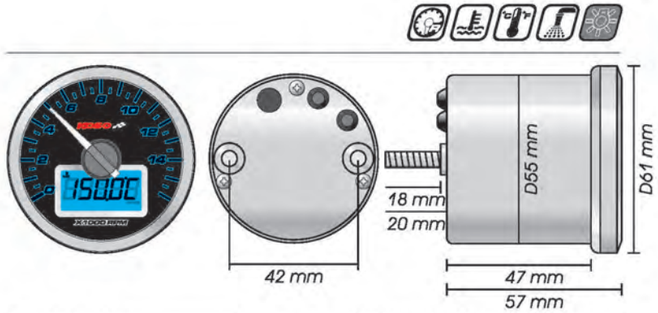
★ B A 4 8 3 B 1 0 ★
Blue 0~15,000 RPM Black

Option accessory

Eclipse style

D55 TACHOMETER

The new eclipse style is focused on the smoke lens design and the white LED back light using in the meter.
With the new design smoke lens, the meter will looks almost black when it is off, so no one could knows 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.



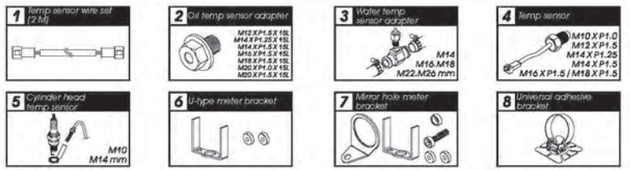
●Tachometer	Display range: 0~9,000 RPM (0~16,000 RPM) Display unit: 100 RPM
○Display internal	<0.5 second
○Stroke / piston setting	2 Stroke: 1, 2, 3, 4 pistons 4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
●Thermometer	Display range: 0~150°C (32~302°F) Display unit: 0.1°C (°F), °C & °F for alternative
○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
Back light color Display range Panel color

★ B A 5 5 4 B 1 3 ★
Blue 0~9,000 RPM Black

★ B A 5 5 4 D 1 2 ★
Blue 0~16,000 RPM Black

Option accessory

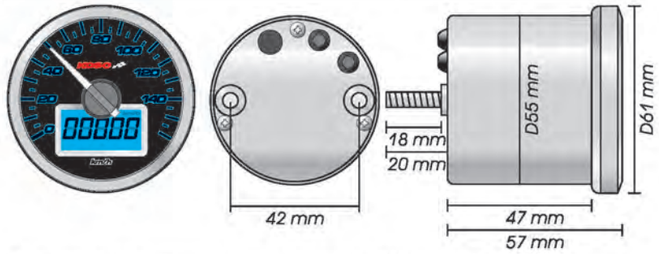


Eclipse style

E-mark approval

D55 SPEEDOMETER

The new eclipse style is focused on the smoke lens design and the white LED back light using in the meter.
With the new design smoke lens, the meter will looks almost black when it is off, so no one could knows 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.



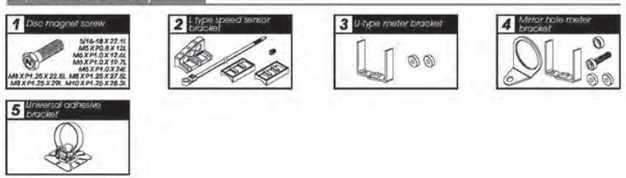
Speedometerr	Display range: 0~160 km/h (0~260 km/h) Display unit: 1 km/h
Display internal	<0.5 second
Odometer	Display range: 0~99999 km, reset automatically after 99999 km Display unit: 1 km
Trip meter	Display range: 0~999.9 km, reset automatically after 999.9 km Display unit: 0.1 km
Tire circumference setting	Setting range: 0~2,999 mm Setting unit: 1 mm・Pulse setting: 1
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

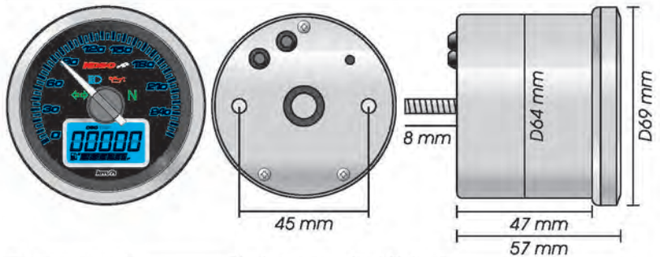
Item number
Back light color Display range Panel color

*B A 5 5 4 B 1 0 *
Blue 0~160 km/h Black

*B A 5 5 4 B 1 1 *
Blue 0~260 km/h Black

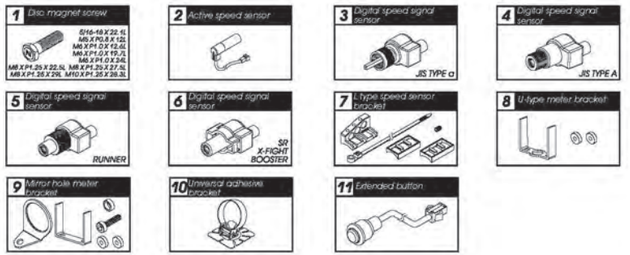
Option accessory





Speedometer	Display range: 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・Pulse setting: 1~60
Fuel level	Display range: 6 segment bar graph Display unit: 16.6 % 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)	D64 X 57 mm
Meter weight	Around 190 g
Telltales	Repeater (Green) High beam (Blue) Oil (Red) Neutral (Green)

Option accessory



Eclipse style

E-mark approval

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 de mands.
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 back light using in the meter.
With the new design smoke lens, the meter will looks almost black when it is off, so no one could knows which meter you install on your bike.
With the high contrasting white LED design, the dial will look very clear in the night time.

Eclipse style

E-mark approval

D64 SPEEDOMETER

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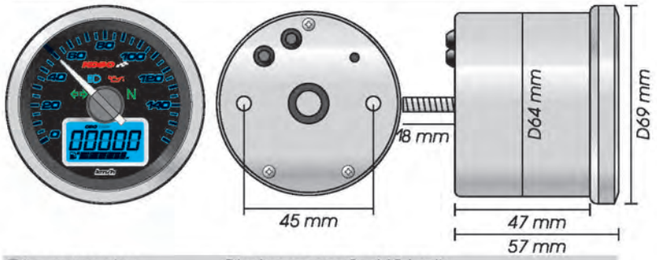
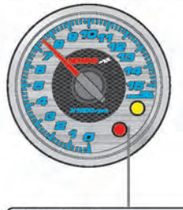


●Speedometer	Display range: 0~160 km/h Display unit: 1 km/h
○Display internal	<0.5 second
○ Odometer	Display range: 0~99999 km, reset automatically after 99999 km Display unit: 1 km
○ Trip meter	Display range: 0~999.9 km, reset automatically after 999.9 km Display unit: 0.1 km
○Tire circumference setting	Setting range: 300~2,500 mm Setting unit: 1 mm・Pulse setting: 1~60
●Fuel level	Display range: 6 segment bar graph Display unit: 16.6 % 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)	D64 X 57 mm
●Meter weight	Around 190 g
●Telltales	⇔ Repeater (Green) D High beam (Blue) Oil (Red) N Neutral (Green)

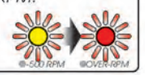
Item number
Back light color Display range Panel color

*B A 6 4 2 B 1 0 *
Blue 0~160 km/h Black

*B A 6 4 2 B 1 1 *
Blue 0~260 km/h Black



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



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

Item number
Back light color Display range Panel color

*B A 4 8 1 B 1 7 *
Blue 0~15,000 RPM Black

Option accessory

1 U-type meter bracket

2 Mirror hole meter bracket

3 Universal adhesive bracket

Chrome style

D48 TACHOMETER

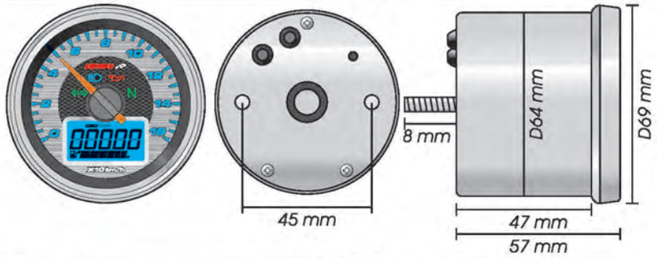
The new chrome dial is designed for fitting the speedometer on the custom bike.
With the chrome design, you could get rid of the plastic dial and get a better look chrome to fit your bike.
The 48 mm tachometer comes with the shift light, so you could set it up according to your bike and command the best gear shift timing.

Chrome style

E-mark approval

D64 SPEEDOMETER

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



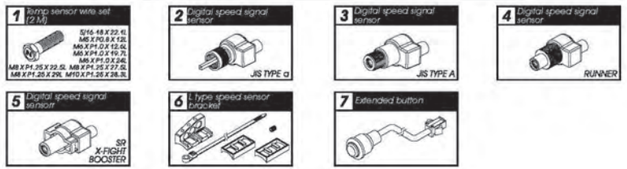
●Speedometer	Display range: 0~160 km/h (0~260 km/h) Display unit: 1 km/h
○Display internal	<0.5 second
○Odometer	Display range: 0~99999 km, reset automatically after 99999 km Display unit: 1 km
○Trip meter	Display range: 0~999.9 km, reset automatically after 999.9 km Display unit: 0.1 km
○Tire circumference setting	Setting range: 300~2,500 mm Setting unit: 1 mm・Pulse setting: 1~60
●Fuel level	Display range: 6 segment bar graph Display unit: 16.6 % for each segment Setting range: 100Ω, 510 Ω, no display
●**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) Repeater (Green) Oil (Red) N Neutral (Green)

Item number
Back light color Display range Panel color

* B B 6 4 1 B 3 0 *
Blue 0~160 km/h Chrome

* B B 6 4 1 B 3 1 *
Blue 0~260 km/h Chrome

Option accessory

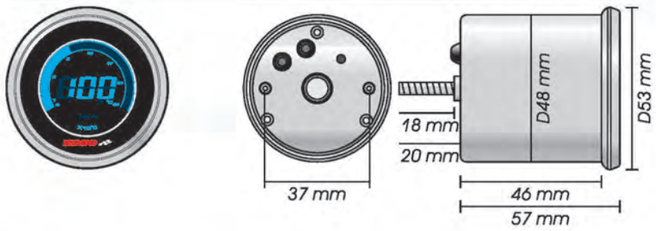


Black LCD

E-mark approval

D48 THERMOMETER

The newly design black LCD style thermometer comes with the bar graphic scale and the digital thermometer at the same time. The meter comes with the measuring unit change function, so you could switch between the C & F according to your demand.
The round stainless style is very classical and will fit in all the street bikes.



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

Item number
Back light color Display range Panel color

* B A 4 8 4 B 2 0 *
Blue 0~250°C Black

* B A 4 8 4 R 2 0 *
Red 0~250°C Black

Option accessory

Black LCD

DL-01R
D48 TACHOMETER

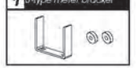
The all new 48 mm LCD tachometer is the new design we develop after 2 years research to solve the defect of LCD no moving feeling like the needle meter.
With the moving bar and the big digit tachometer, you could get the same moving feeling as the needle and very accurate RPM information at the same time.
With the MAX record function, you could check the engine situation all the time.
Except that, we add a new function the traditional needle meter can't reach the changeable scale.
The new LCD tachometer is that the RPM bar scale could be changed from 10,000 / 15,000 / 20,000 RPM to fit the engine on your bike, and make the bar tachometer works better on your bike.

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

Item number
Back light color Display range Panel color

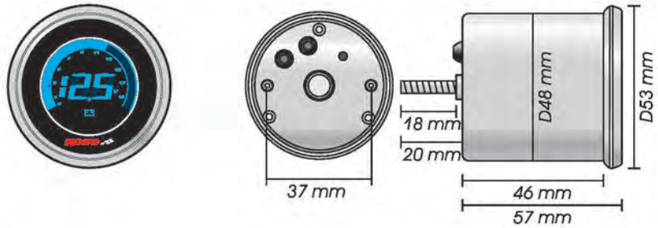
*B A 4 8 4 B 0 0 *
Blue 0~20,000 RPM Black

Option accessory

1 U-type meter bracket


2 Mirror hole meter bracket

3 Universal adhesive bracket



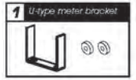
●**Volt meter**	Display range : DC 8.0~19.9 V Display unit : 0.1 V
○Bar graph volt meter	Display range : DC 8.0~19.9 V Display unit : Around 0.66V per segment
○The low voltage warning setting	Setting range : DC 8.0~12.0 V Setting unit : 0.1 V
●**Effective voltage**	**DC12V**
●Effective temperature range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

Item number
Back light color Display range Panel color

*B A 4 8 4 B 3 0 *
Blue 8.0~19.9V Black

*B A 4 8 4 R 3 0 *
Red 8.0~19.9V Black

Option accessory

1 U-type meter bracket


2 Mirror hole meter bracket

3 Universal adhesive bracket

Black LCD

D48 VOLT METER

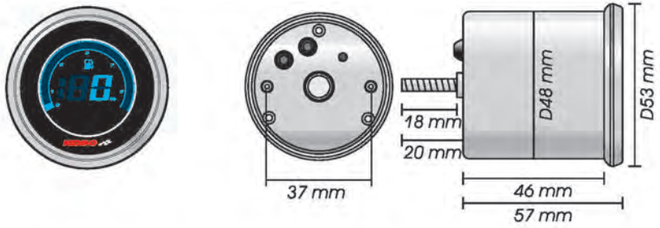
The newly design black LCD style volt meter comes with the settable warning function, so you could adjust the warning a cording to your demand.
The new design bar graphic scale & digital volt meter is very easy for you to monitor the battery situation all the time.

Black LCD

E-mark approval

D48 FUEL METER

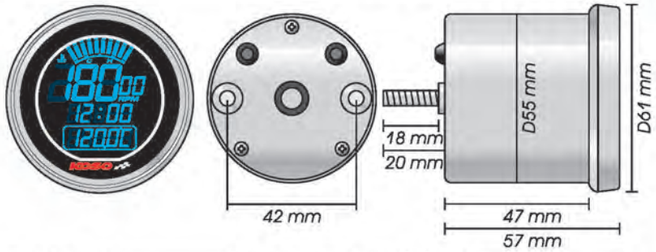
The newly design black LCD style meter is designed to match to the street style meter which doesn't come with the fuel meter.
The fuel meter is adjustable for both 100 ohm & 510 ohm fuel sensor system.
Besides that, the new fuel meter comes with the fuel insufficient warming function.
You could make 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

Item number
Back light color Display range Panel color

Option accessory



●Tachometer	Display range: 0~18,000 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 unit: °C & °F for alternative
●Digital thermometer	Display range: 0~120°C (32~248°F) Dispaly 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
○Display internal	<0.5 second
●Clock	24 H
●**Supply voltage**	**DC 12V**
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203
●Meter size (D X H)	D55 X 57 mm
●Meter weight	Around 190 g

Item number
Back light color Display range Panel color

Option accessory

Black LCD

DL-01R
D55 TACHOMETER

To update the LCD series product, we adopt the new LCD display method to make the letter more clearly under sun.
The blue light letter in the black display looks very fashion & unique, and it is very easy to know the accurate information from the LCD comparing to the needle type meter.
The flexibility is the most important function LCD could work, so all the unit displayed could be switch between the imperial and metric system you could put the black LCD style?
LCD speedometer and tachometer together to get all the information you need.
Looking for unique product to fit your unique bike.
Try the new KOSO black LCD meter and enjoy your riding.

Black LCD

DL-01S
D55 SPEEDOMETER

To update the LCD series product, we adopt the new LCD display method to make the letter more clearly under sun.
The blue light letter in the black display looks very fashion & unique, and it is very easy to know the accurate information from the LCD comparing to the needle type meter.
The flexibility is the most important function LCD could work, so all the unit displayed could be switch between the imperial and metric system you could put the black LCD style?
LCD speedometer and tachometer together to get all the information you need.
Looking for unique product to fit your unique bike.
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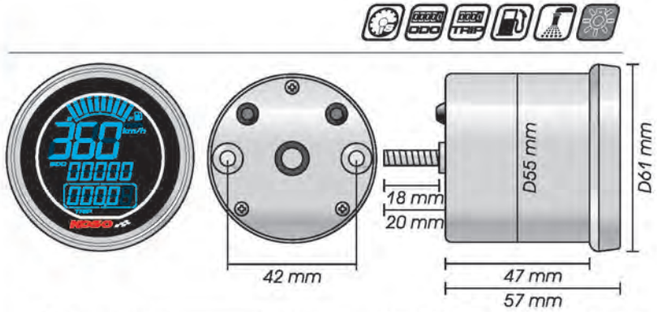


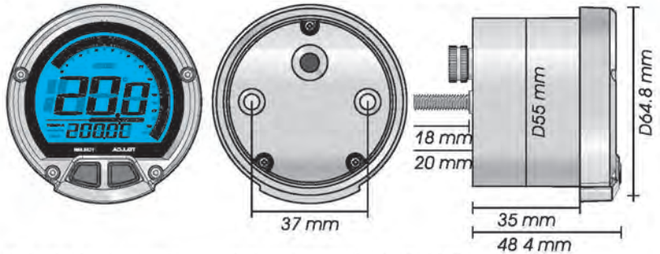
●Speedometer	Display range: 0~360 km/h (0~223 MPH) Display unit: km/h & MPH for alternative
○Display internal	<0.5 second
○Odometer	Display range: 0~99999 km (mile), reset automatically after 99999 km (mile) Display unit: 1 km (mile)
○Trip meter	Display range: 0~999.9 km (mile), reset automatically after 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
Back light color Display range Panel color

★ B B 5 5 2 B 7 0 ★
Blue 0~360 km/h Black

Option accessory

1 Disc magnet screw
2 Active speed sensor
3 Digital speed signal sensor — JIS TYPE C
4 Digital speed signal sensor — JIS TYPE A
5 Digital speed signal sensor — RUNNER
6 Digital speed signal sensor — X-FIGHT BOOSTER
7 L type speed sensor bracket
8 U-type meter bracket



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

Item number
Back light color Display range Panel color

Clockwise

★ B A 5 5 5 B 1 6 ★ Blue 0~20,000 RPM Black
★ B A 5 5 5 B 1 9 ★ Blue 0~20,000 RPM Chrome
★ B A 5 5 5 B 1 1 ★ Blue 0~20,000 RPM Chrome

Anti-clockwise

★ B A 5 5 5 B 1 7 ★ Blue 0~20,000 RPM Black
★ B A 5 5 5 B 2 0 ★ Blue 0~20,000 RPM Chrome
★ B A 5 5 5 B 1 2 ★ Blue 0~20,000 RPM Chrome

Option accessory

1 Temp sensor wire set (2 M)
2 Oil temp sensor adapter — M12 X P1.5 X 15L; M14 X P1.25 X 15L; M14 X P1.5 X 15L; M16 X P1.5 X 15L; M18 X P1.5 X 15L; M20 X P1.5 X 15L
3 Water temp. sensor adapter — M14; M16,M18; M22,M26 mm
4 Temp sensor — M10 X P1.0; M12 X P1.5; M14 X P1.25; M14 X P1.5; M16 X P1.5 / M18 X P1.5

Black LCD

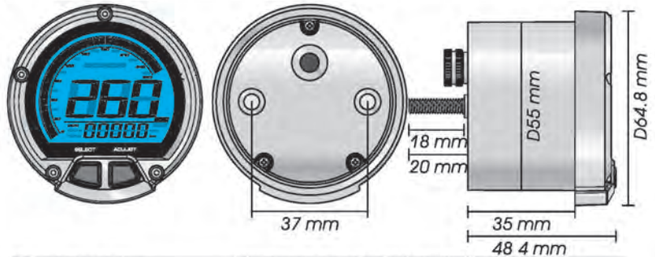
DL-02R
D55 TACHOMETER

On the tachometer, you could adjust the scale between 10,000 RPM, 15,000 RPM and 20,000 RPM.
The most different part on the new tachometer is that we will offer you 2 tachometers which work on the different direction.
One will move from right to left and another is moving from left to right.
The reason we make this design is that we hope that when you install the DL02 speedometer and tachometer together, you could tell the difference from speedometer and tachometer by the different direction they move.
This is a very confident design, and we hope this design cold change something on the motorcycle world.

E-mark approval

DL-02S
D55 SPEEDOMETER

The DL-02 is the new style LCD meter KOSO will introduce in the end of 2008. With the new meter construction, we could make the button on the meter panel.
It will be more convenient for you to use the meter daily.
On the LCD, we use the bar to simulate the moving needle to make the LCD meter looks sport.
On the speedometer, the scale will adjust to MPH when you adjust the speed unit from Km/h to MPH.
On this new speedometer, we also design the average speed, so you could know more information when you go for trip with your bike.



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

Item number
Back light color Display range Panel color

★BA55B10★
Blue 0~260 km/h Chrome

★BA55B15★
Blue 0~260 km/h Black

★BA55B18★
Blue 0~260 km/h Chrome

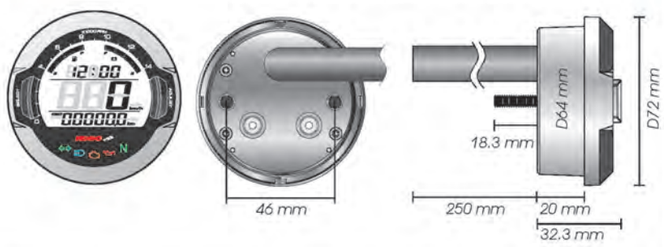
Option accessory

1 Disc magnet screw
5/16-18 X 22.1L
M5 X P0.8 X 12L
M6 X P1.0 X 12.6L
M6 X P1.0 X 19.7L
M6 X P1.0 X 24L
M8 X P1.25 X 22.5L M8 X P1.25 X 27.5L
M8 X P1.25 X 29L M10 X P1.25 X 29.3L

2 Active speed sensor

3 Universal adhesive bracket

NEW !



Speedometer	Display range:0~360 km/h (0~223 MPH) Dissplay unit:km/h & MPH for alternative
Odometer	Display range: 0~99999.9 km (mile), reset automatically after 99999 km (mile) Dissplay unit:0.1km (mile)
Trip meter A/B	Display range: 0~999.9 km (mile), reset automatically after 999.9 km (mile) Dissplay unit:0.1km (mile)
Remainder distance can be drive	Dissplay range:999.9~0 km (mile) Dissplay unit:0.1km (mile)
Tire circumference setting	Setting range:300~2,500 mm Setting unit:1 mm.Pulse setting: 1~60
Fuel meter	Dissplay range:4 leves
Fuel resistance	Setting range:100Ω/250Ω/510Ω/1,200Ω
Clock	24 H
Digital Volt meter	Dissplay range:DC5~DC 28V Flashing warning when over display range
Volt meter leves	Dissplay range:4 leves
Backlight brightness adjust	Setting range:5 (Brighter)~1 (Darker):1
Effective voltage	**DC 12 V**
Effective temperature range	-10~+60°C
Meter standard	JIS D 0203 S2
Meter size (D X H)	135.7 X 100.7 X 52 mm
Meter weight	Around 240 g
Telltales	Repeater(Green) N Neutral(green) Oil (Red) High beam (Blue) EOBD (Amber)

Item number
Back light color Display range Panel color

★BB642W10★
White Black

GP style

E-mark approval

D64 DL-03SR

The DL-03SR is the first round meter we add the RPM function into the speedometer. With the auto-switch function, the meter will adjust to the RPM display when you start the engine. When the engine is off, the meter will switch to the main screen and show you the information about the voltage and fuel automatically.

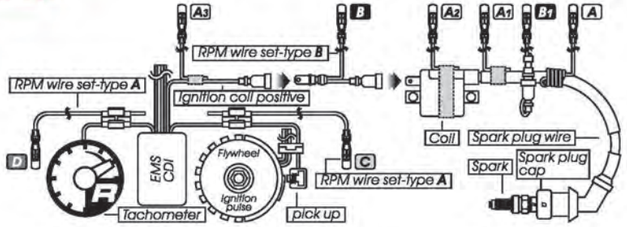
The white backlight design is easier to see the information display in the night. The most special function is the remaining mileage function we include in the meter, so you could use the learning model to make the meter learn the fuel consumption of your bike and then the meter will show you the remaining distance information.

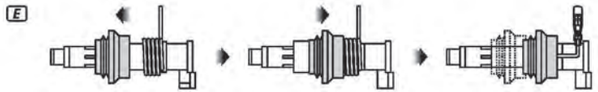
Tachomete installation instruction

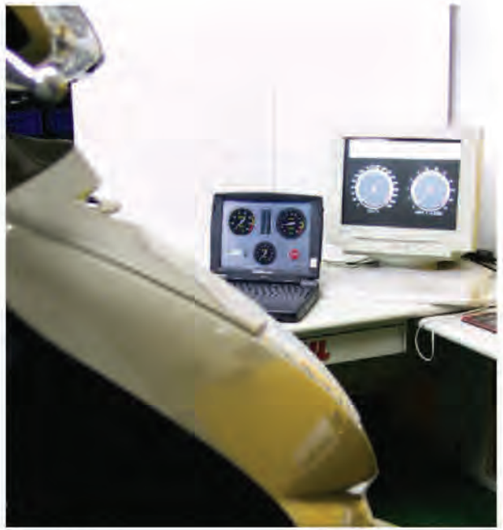
RPM sensor

INSTRUCTIONS

To improve the possibility to use the tachometer on different machines, we provide you 3 different ways to install the rpm sensor wiring. (only available on RX1N, RS DYNO meter dyno edition, and GP style universal tachometer 48mm & 55mm now.)
You could choose to wrap the wiring on the spark plug wire, connect to the ignition coil positive wire, or the pick up.
We know this may still not enough to fit every different model on the world, but we are doing our best to make it possible. the new KOSO GP style universal tachometer could fit most of the scooter and ATV with CDI ignition system on the market. there are different ignition systems exit on the market, and we will keep developing the new product for it.
as for our old product, we will adopt the new technology when upgrading them.







SCOOTER

Manufacturer	Model	A	B	C	Setting
YAMAHA	JOG 50	O	Orange	White/Red	2C-1P
	JOG 90	O	Orange	White/Blue	2C-1P
	JOG 100	X	X	White/Blue	2C-1P
	RS 100	O	X	White/Blue	2C-1P
	MAJESTY 125	O	Orange	White/Blue	2C-1P
	SV MAX 125	O	X	X	2C-1P
	CYGNUS 125	X	X	White/Green	2C-1P
	GTR 125	O	X	White/Blue	2C-1P
	AEROX 50	O	X	White/Blue	2C-1P
YAMAHA/MBK	SLIDER 50	O	-	X	2C-1P
	CHOI NORI	O	White/Blue	White/Red	2C-1P
GILERA	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
	Sportsman 700	X	O	X	2C-1P
HONDA	TRX 400 EX	O	O	O	2C-1P
	TRX 450 R	O	O	O	2C-1P
YAMAHA	YFZ 450	O	X	X	2C-1P
	RAPTOR	O	O	X	2C-1P
	LTZ 400	O	O	X	2C-1P
BOMBADIER	DS 650	O	O	X	2C-1P

Main switch wiring reference:

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

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

RPM wiring reference:

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

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

Fuel indicator wiring reference:

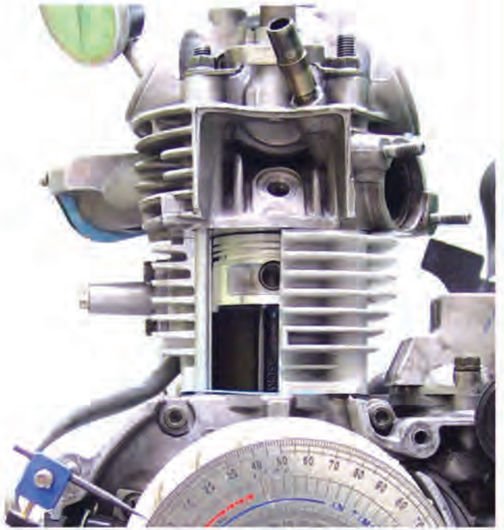
YAMAHA	Green	KYMCO	Yellow/White
HONDA	Yellow/White	SYM	Yellow/White
SUZUKI	Yellow/White	PGO	Gray
KAWASAKI	Black/L Green		

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

RPM sensor

INSTRUCTIONS

For the models comes with the new ignition coil, please wrap the RPM wire st 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 & ACEESSORY

L type speed sensor bracket instruction

Put the magnet into the brake disc screw hole.

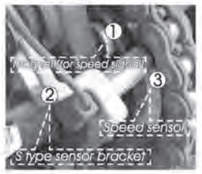
Use the bind & the non-slip rubber to fix bracket to the front of the shock and adjust the proper height and angle.

Speed sensor installation find a proper hole to put the sensor in and fix it by hexagonal bolt.

Please keep the distance between sensor and magnet in 8 mm to avoid bad signal.

S type speed sensor bracket instruction

1. Insert the signal magnet. (You need to dig a hole by yourself).
2. Install the s-type sensor bracket, you could adjust the proper distance and angle to fit different model.
3. After installing the sensor, please adjust the distance between sensor and magnet . Please keep the distance in 8 mm.



NOTE

About the setting, please refer to **4-7** tire circumference and sensor point setting.

S type speed sensor bracket instruction

Put the magnet into the brake disc screw hole..

Install the s type sensor bracket.

Adjust the sensor bracket position to make sure that the sensor could face the magnet to prevent bad speed signal or no signal!

Install the speed sensor on the bracket.

Adjust the distance between sensor and magnet. We suggest you to make sure the distance is under 8 mm for catching good speed signal.

Passive speed sensor

SH-01 (With water-proof connector)

Length	Item number
900mm	*BF019J00*
1,150mm	*BF019J01*
1,350mm	*BF019J02*
1,550mm	*BF019J04*
1,750mm	*BF019J05*
2,000mm	*BF019J06*
4,000mm	*BF019J07*

Passive speed sensor

SH-01

Length	Item number
900mm	*BF019000*
1,150mm	*BF019001*
1,350mm	*BF019002*
1,550mm	*BF019004*
1,750mm	*BF019005*
2,000mm	*BF019006*
4,000mm	*BF019J07*

Passive speed sensor instruction

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

EX. 1 *If your disk has 3 screws, you could install 1 or 3 magnets to catch the speed.*

EX. 2 *If your disk has 4 screws, you could install 1、2 or 4 magnets to catch the speed.*

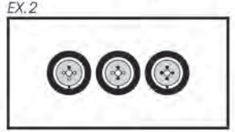
EX. 3 *If your disk has 5 screws, you could install 1 or 5 magnets to catch the speed.*

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

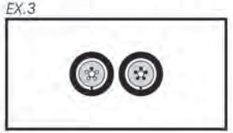
After finishing the magnet installation and sensor point setting, please move your tire to test the speedometer work or not.

EX.1

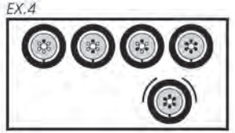
EX.2



EX.3



EX.4



Active speed sensor

SA-07 (With water-proof connector)

Length	Item number
900mm	*BF640J00*
1,150mm	*BF640J01*
1,350mm	*BF640J02*
1,550mm	*BF640J04*
1,750mm	*BF640J05*
2,000mm	*BF640J06*
4,000mm	*BF640J07*

Active speed sensor

SA-07

Length	Item number
900mm	*BF640000*
1,150mm	*BF640001*
1,350mm	*BF640002*
1,550mm	*BF640004*
1,750mm	*BF640005*
2,000mm	*BF640006*
4,000mm	*BF640007*

Active speed sensor instruction

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

EX. 1 *The disc screw.*

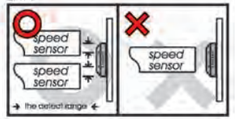
EX. 2 *The disc to detect the disc gap.*
(Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)

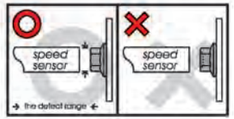
EX. 3 *The sprocket to detect the disc gap.*
(Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)

We will suggest you to catch the speed from the disc screws. The more the sensor points are, the better the speed accuracy is.

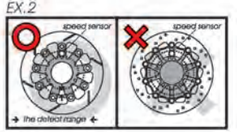
The maximum sensor points the speed sensor could detect is 60 points per turn.

EX.1

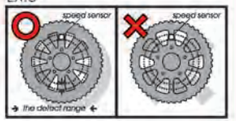


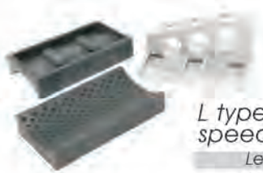


EX.2



EX.3





L type speed sensor bracket

Length	Item number
900mm	*BI003S01*

S type speed sensor bracket

Size	Item number
M8	*BI002S08*
M10	*BI002S10*

Sprocket magnet screw

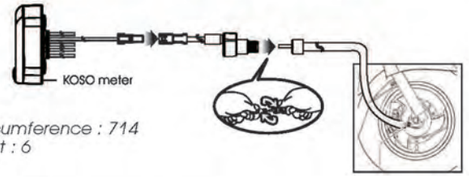
Size	Item number
M6 X P1.0 X 14 L	*BF010640*
M6 X P1.0 X 16.5 L	*BF010620*
M6 X P1.0 X 19.6 L	*BF010650*
M6 X 7.6 L	*BF010660*

Disc magnet screw

Size	Item number
5/16 X P18 X 18.25L	*BF010500*
M5 X P0.8 X 12 L	*BF010510*
M6 X P1.0 X 12.6 L	*BF010630*
M6 X P1.0 X 19.7 L	*BF010611*
M6 X P1.0 X 24 L	*BF010600*
M8 X P1.25 X 22.5 L	*BF010820*
M8 X P1.25 X 27.5 L	*BF010830*
M8 X P1.25 X 29 L	*BF010800*

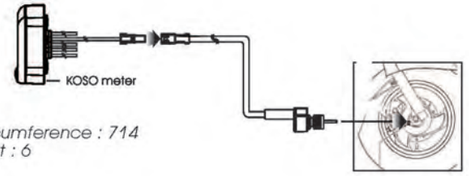
SPEED SENSOR & ACEESSORY

TYPE A~C



- The tire circumference : 714
- Sensor point : 6

TYPE D



- The tire circumference : 714
- Sensor point : 6

Speed signal converter A
(With water-proof connector)

Model	Item number
SR, X-FIGHT, BOOSTER	* B F 7 0 1 0 0 1 *

Speed signal converter A

Model	Item number
SR, X-FIGHT, BOOSTER	* B F 7 0 1 0 0 0 *

Speed signal converter B
(With water-proof connector)

Model	Item number
RUNNER	* B F 8 0 1 0 0 1 *

Speed signal converter B

Model	Item number
RUNNER	* B F 8 0 1 0 0 0 *

Speed signal converter C
(With water-proof connector)

Model	Item number
JIS TYPE A	* B F 5 8 0 0 1 1 *

Speed signal converter C

Model	Item number
JIS TYPE A	* B F 5 8 0 0 0 1 *

Speed signal converter D

Model	Item number
JIS TYPE A	* B F 5 8 0 0 0 0 *

Speed signal converter D
(With water-proof connector)

Model	Item number
JIS TYPE α	* B F 5 8 0 0 1 0 *

LAMDA SENSOR & ACEESSORY

Sport type O^2 sensor

Item number
* B G 0 0 0 S 0 0 *

Race type O^2 sensor

Item number
* B G 0 0 0 S 0 1 *

Active Bosh O^2 sensor

Item number
* B 0 0 0 2 0 0 5 *

O^2 Sensor adaptor screw kit

Item number
* B 0 0 0 2 0 0 2 *

Wide band O^2 sensor

Item number
* B 0 0 0 2 0 0 4 *

O^2 Signal connect wire
(With water-proof connector)

Item number
* B 0 0 0 2 0 0 1 *

O^2 Signal connect wire

Item number
* B 0 0 0 2 0 0 3 *

TEMPER SENSOR & ACCESSORY

Temperature sensor adapter

Size	Item number
M12 X P1.5 X 15 L	*BG241215*
M14 X P1.25 X 15 L	*BG241412*
M14 X P1.5 X 15 L	*BG281415*
M16 X P1.5 X 15 L	*BG301615*
M18 X P1.5 X 15 L	*BG301815*
M20 X P1.0 X 15 L	*BG302010*
M20 X P1.5 X 15 L	*BG302015*

M12 X P1.5 X L15	GPX250R/<Ⅱ>	CB1300SF	GSX-R400R	ZZ-R1100	CB400FOUR
HONDA	GPZ250R	CB1300SF	RF400R/V	ZEPHYR1100/RS	CB400SF
VTR1000F	DREAM50	X-11	GSX1100Sカタナ	GPZ1100	CBR1100XXブラックバード
CBR1000RR	APE100/50	YAMAHA	インパルス400/タイプS	GPZ1000RX	CB400SFハイパーVテック
CBR900RR	CB-1/TYPE II	YZF-R1	バンディット400/V	ZX-10	M20 X P1.5 X L15
VER750R/F	XR100/50Motard	V-MAX	バンディット400/Vリミテッド	GPZ900R	YAMAHA
VF750/F/S/M	BALIUS<Ⅱ>	TDM850	バンディット250/V	ZX-10	XJR1300
CBR600F	CBR750スーパーエアロ/パリケーン	TRX850	バンデスッメ250Vリミテッド	ZR-7	XJR1200/R
CBX550F	マグナ750	YZF750R/SP	ボルティ	GPZ750R	V-MAX
CBR600RR	VFR400R/Z/プロアーム	FZR750	GSX400Sカタナ	ZEPHYR750/RS	HONDA
CBR600F	VF400Fインテグラ	FZX750	GSX250Sカタナ	Z750GP	Cb750
HORNET600	ゼビルス	SRX600/400	YAMAHA	Z750FX<Ⅱ>/<Ⅲ>	CB400FOUR
RVF400	V-ツインマグナ<250>	SR500/400	GSX-R1100W	ZZ-R400	CB400SF
CB-1/TYPE<Ⅱ>	XL250/ディグリ	Z1	GSX-R1100	ZXR400/R	
CBX400F	モンキーゴリラ<12V>	XJR400/S/R/RS	TL1000R/S	ZX-4	
VTR250	マグナ50/DAX<12V>	XVビラーゴ400/250	GSX-R750	XANTHUS	
XR250/BAJA	M14 X P1.5 X L15	KAWASAKI	GSX-R400R	ZRX400/<Ⅱ>	
XLR250R/BAJA	HONDA	FZ400	RF400R/V	Z400FX/GP	
KAWASAKI	CB1000SF/T2	750RS<Z2>	GOOSE350	GPZ400F/<Ⅱ>	
ZX-9R	CB750FZ/FA/FC	Z750FX	GOOSE250	HONDA	
ZX-12R	BROS 650	M14 X P1.25 X L15	M16 X P1.5 X L15	HORNET250	
ZXR750/R	STEED 600/400	SUZUKI	YAMAHA	M20 X P1.0 X L15	
GPX400R	BROS 400	GSX-R1100W	GSF1200/S	HONDA	
GPZ400R	CBR250R/RR	GSX-R1100	M18 X P1.5 X L15	X-4	
FX400R	VRX400ロードスタ	GSX-R1100	KAWASAKI	CB1300SF	
ZZ-R250	JADE/S	TL1000R/S	ZRX1100/<Ⅱ>	CB100SF/T2	
ZXR250/R	X-4	GSX-R750	ZRX1200R/S	CB750	

Temperature sensor
0~250°C (With water-proof connector)

Size	Item number
PT 1/8 X 28	*BF030000*
M10 X P1.0	*BF100000*
M10 X P1.25	*BF100001*
M12 X P1.5	*BF120000*
M14 X P1.25	*BF140000*
M14 X P1.5	*BF140001*
M16 X P1.5	*BF160000*
M18 X P1.5	*BF180000*

Temperature sensor
0~150°C

Size	Item number
PT 1/8 X 28	*BF030125*
M10 X P1.0	*BF100100*
M10 X P1.25	*BF100125*
M12 X P1.5	*BF120125*
M14 X P1.25	*BF140125*
M14 X P1.5	*BF140150*
M16 X P1.5	*BF160150*
M18 X P1.5	*BF180150*

Cylinder head temp sensor
0~250°C (With water-proof connector)

Size	Item number
10 mm	*KI001R11*
14 mm	*KI001R15*

Cylinder head temp sensor
0~150°C

Type	Item number
10mm	*KI000R10*
14 mm	*KI000R14*

EGT sensor
200~1000°C

Type	Item number
Sport	*BF000004*

EGT sensor
200~1000°C

Type	Item number
Sport	*BF000005*

Water temp adapter

Size	Item number
14 mm	*BG014800*
16 mm	*BG016800*
18 mm	*BG018800*
22 mm	*BG022800*
26 mm	*BG026800*

EGT sensor clamp

Type	Size	Item number
Sport	40-64mm	*BIS200001*
Sport	60-80mm	*BIS200002*

Type	Size	Item number
Race	21-38mm	*BIS200003*
Race	40-64mm	*BIS200004*

WIRE HARNESS

Temp sensor wire set

Size	Item number
JST TYPE	* B 0 0 0 1 0 0 1 *

Temp sensor wire set

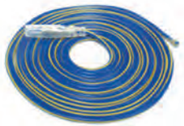
Size	Item number
1 M	* B 0 0 0 0 1 0 0 *
2 M	* B 0 0 0 0 2 0 0 *

Main wire

Model	Item number
RX2N	* B 0 0 1 5 0 0 0 *

Main wire

Size	Item number
DB-01R	* B 0 0 1 8 0 0 0 *



RPM wire set (Type A)

Item number
* B 0 0 0 1 A 0 0 *

RPM wire set (Type B)

Item number
* B 0 0 0 1 B 0 0 *

Main wire

Model	Item number
RX1N, RX2	* B 0 0 1 1 0 0 0 *

Speed sensor extension wire set

Size	Item number
100 cm	* B 0 0 0 5 0 0 0 *

RPM wire set (Type A)

Item number
* B 0 0 0 1 A 0 1 *

RPM wire set (Type B)

Item number
* B 0 0 0 1 B 0 1 *

External extension button
(For DL meter)

Size	Item number
For 55DL meter	* B 0 0 0 6 0 0 0 *

Connect terminal

Item number
* 4 H 0 0 1 R 0 0 *

RPM wire set (Type A)

Item number
* B 0 0 0 1 A 0 2 *

RPM wire set (Type C)

Item number
* B 0 0 0 1 C 0 0 *

Shift light

Size	Item number
D48 mm	* B J 4 8 0 R 0 0 *
D55 mm	* B J 5 5 0 R 0 0 *

Battery box

Size	Item number
UNIVERSAL	* 4 Q 0 0 1 0 0 0 *

METER BRACKET

Meter bracket

Model	Item number
Rx2	* B E 0 1 0 K 0 0 *

Meter bracket

Model	Item number
RX1N, 2N, XR-SRN	* B E 0 1 1 0 0 1 *

Meter bracket

Model	Item number
XR-SR, XR-S	* B E A T V K 0 0 *

Meter bracket

Model	Item number
EGT, DB-01 / R	* B E 0 0 4 K 0 5 *

Handle bar meter bracket

Model	Handbar size	Item number
RX1N, 2N, XR-SRN	7/8"	* B E 0 1 1 K 0 2 *
	1 1/8"	* B E 0 0 3 K 0 0 *

Meter bracket

Model	Item number
XR-SR, XR-S, RS DYNO	* B E A T V K 0 5 *

Handle bar meter bracket

Model	Handbar size	Item number
RX1N, 2N, XR-SRN	7/8"	* B E A T V K 0 2 *
	1 1/8"	* B E 0 0 3 K 0 2 *

Handle bar meter bracket

Model	Handbar size	Item number
EGT, DB-01 / R	7/8"	* B E 0 1 8 K 0 0 *
	1 1/8"	* B E 0 0 3 K 0 1 *

Handle bar meter bracket

Model	Handbar size	Item number
Mini style	7/8"	* B E 0 0 2 K 0 2 *
	1 1/8"	* B E 0 0 3 K 0 3 *

Adhesive type Adjustable meter bracket

Model	Item number
D48mm	* B E 4 8 0 0 0 0 *
D55mm	* B E 5 5 0 0 0 0 *
D64mm	* B E 6 4 0 0 0 0 *

Screw type Adjustable meter bracket

Model	Item number
D48mm	* B E 4 8 0 0 0 4 *
D55mm	* B E 5 5 0 0 0 4 *
D64mm	* B E 6 4 0 0 0 4 *

V type meter bracket

Model	Item number
D48~55 mm	* B E 4 8 0 0 0 3 *
D64 mm	* B E 6 4 0 0 0 3 *

Meter bracket (For switch)

Model	Item number
Mini style	* B E 0 0 0 M 0 1 *

U type Meter bracket

Model	Item number
D48mm	* B E 4 8 0 0 0 2 *
D55mm	* B E 5 5 0 0 0 2 *
D64mm	* B E 6 4 0 0 0 2 *
For DI02	* B E 5 5 5 0 0 2 *

D type meter bracket

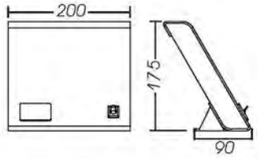
Model	Item number
D48mm	* B E 4 8 0 0 0 1 *
D55mm	* B E 5 5 0 0 0 1 *
D64mm	* B E 6 4 0 0 0 1 *

ATV handle bar bracket

Model	Color	Item number
XR-SA	Black	* B E A T V K 0 3 *
	BLUE	* B E A T V B 0 3 *

METER DISPLAY

200 TYPE Meter Display



200A

Item number	Model
＊BK001A01＊	XR-S XR-SA DB-02 RS DYNO

200B

Item number	Model
＊BK001B01＊	DUAL EGT METER EGT METER POWER TEST METER WIDE BAND A/F RATIO METER G2 REV. COUNTER

200C

Item number	Model
＊BK001C01＊	G1 REV COUNTER MINI STYLE SERIES FUEL METER A/F RATIO METER THERMOMETER HOUR METER GEAR METER CNC VOLT METER

200D

Item number	Model
＊BK001002＊	48mm meter

200E

Item number	Model
＊BK001003＊	55mm meter

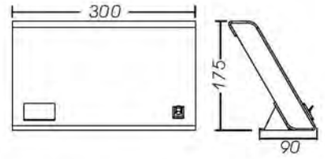
200F

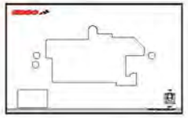
Item number	Model
＊BK001004＊	64mm meter

200G

Item number	Model
＊BK001001＊	UNIVERSAl

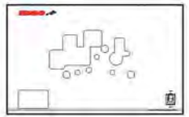
300 TYPE Meter Display





300A

Item number	Model
＊BK001A00＊	AEROX RUNNER X-FIGHT SR V125

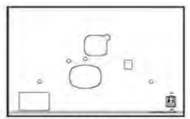


300B

Item number	Model
＊BK001B00＊	RX1N RX1NR RX2N RX2NR RX2 XR-SRN SUPER CROSS

300C

Item number	Model
＊BK001C00＊	BA-SA BB-SA BC-SA AEROX LED tail light



300D

Item number	Model
＊BK001D00＊	G-MAX, WAVE

300E

Item number	Model
＊BK001000＊	UNIVERSAl

Display power kit

Item number
＊B001D0000＊

Display power supplier

Item number	Model
＊BK001005＊	US Standard

Item number	Model
＊BK001006＊	EURO Standard

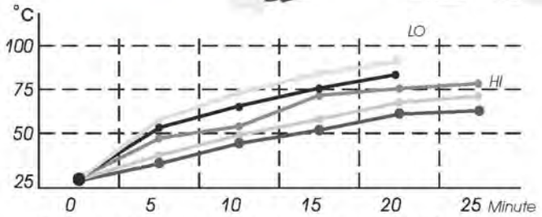
HOT GRIP FEATURES

This new elegant grip design with revolutionary heating structure delivers heatfaster than ever. The new 5 level temperature controller allows you to accurately adjust the grip temperature. You no longer need to tolerate the uncomfortable temperatures. No matter if you are looking for heated grips for your favorite scooter,motorcycle, ATV, snowmobile or Harley, we have what you need.

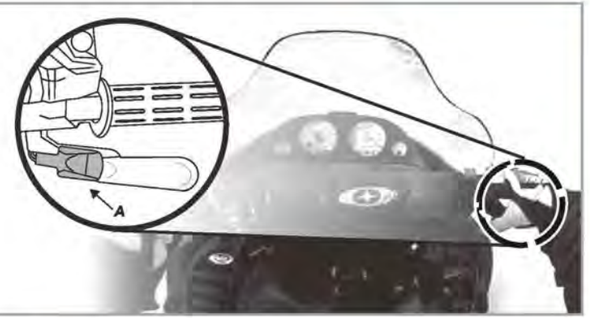
Specification

- The elegant grip design makes the heat grip look nicer than other after market grips.
- The fast heating design delivers heat faster than traditional grips.
- The 5 level temperature controller adjusts the heat grip accurately to avoid uncomfortable temperatures.
- Special rubber material resists the outdoor environment.
- Even at high temperature, the grip remains resistant to damage.

NEW !



- The test is made under air temperature 25 °C.



THUMB HEATER KIT

Model	Item number
Connect with heat grips	* A M 0 0 0 0 1 B *

AM101 AM102 AM103 AM104 AM105 AM106 AM107 AM108 AM109

HOT GRIP

Grip	Switch	Size	Item number
AM101	O	7/8"+1" L130mm	* A M 1 0 1 0 0 O *
	A	7/8"+1" L130mm	* A M 1 0 1 0 0 A *
	O	7/8"+7/8" L130mm	* A M 1 0 1 0 1 O *
	A	7/8"+7/8" L130mm	* A M 1 0 1 0 1 A *
AM102	O	7/8"+1" L130mm	* A M 1 0 2 0 0 O *
	A	7/8"+1" L130mm	* A M 1 0 2 0 0 A *
	O	7/8"+7/8" L130mm	* A M 1 0 2 0 1 O *
	A	7/8"+7/8" L130mm	* A M 1 0 2 0 1 A *
	O	1"+1 1/8" L130mm	* A M 1 0 2 0 2 O *
	A	1"+1 1/8" L130mm	* A M 1 0 2 0 2 A *
	C	1"+1 1/8" L130mm	* A M 1 0 2 0 2 C *
AM103	O	7/8"+1" L130mm	* A M 1 0 3 0 0 O *
	A	7/8"+1" L130mm	* A M 1 0 3 0 0 A *
	C	7/8"+1" L130mm	* A M 1 0 3 0 0 C *
	A	7/8"+7/8" L130mm	* A M 1 0 3 0 1 A *
	C	7/8"+7/8" L130mm	* A M 1 0 3 0 1 C *
AM104	O	7/8"+1" L130mm	* A M 1 0 4 0 0 O *
	A	7/8"+1" L130mm	* A M 1 0 4 0 0 A *
	C	7/8"+1" L130mm	* A M 1 0 4 0 0 C *
	A	7/8"+7/8" L130mm	* A M 1 0 4 0 1 A *
	A	7/8"+1" L120mm (open type)	* A M 1 0 4 0 3 A *
	C	7/8"+1" L120mm (open type)	* A M 1 0 4 0 4 C *

Grip	Switch	Size	Item number
AM105	O	7/8"+1" L130mm	* A M 1 0 5 0 0 O *
	A	7/8"+1" L130mm	* A M 1 0 5 0 0 A *
	C	7/8"+1" L130mm	* A M 1 0 5 0 0 C *
	D	7/8"+1" L130mm	* A M 1 0 5 0 0 D *
	E	7/8"+1" L130mm	* A M 1 0 5 0 0 E *
	O	7/8"+7/8" L130mm	* A M 1 0 5 0 1 O *
	A	7/8"+7/8" L130mm	* A M 1 0 5 0 1 A *
	C	7/8"+7/8" L130mm	* A M 1 0 5 0 1 C *
AM106	E	7/8"+1" L120mm	* A M 1 0 6 0 1 E *
	E	7/8"+7/8" L120mm	* A M 1 0 6 0 2 E *
	E	7/8"+1" L130mm	* A M 1 0 7 0 0 E *
AM107	E	7/8"+7/8" L130mm	* A M 1 0 7 0 1 *
	E	7/8"+1" L130mm	* A M 1 0 7 0 E *
	E	7/8"+7/8" L130mm	* A M 1 0 7 0 2 E *
	E	7/8"+1" L120mm	* A M 1 0 7 0 3 E *
	E	1"+1 1/8" L130mm	* A M 1 0 7 0 6 E *
	E	7/8"+7/8" L120mm	* A M 1 0 7 1 1 E *
	E	7/8"+7/8" L130mm	* A M 1 0 7 2 E *
AM108	E	7/8"+1" L120mm	* A M 1 0 8 0 E *
AM109	E	7/8"+1" L120mm	* A M 1 0 9 0 E *
	E	7/8"+7/8" L120mm	* A M 1 0 3 0 3 E *
	E	7/8"+1" L130mm	* A M 1 0 9 5 0 E *
	E	1"+1 1/8" L130mm	* A M 1 0 9 2 0 E *

MULTI - ADJUSTMENT SWITCH FEATURES

Twisted switch could make the adjustment more accurate, pairing with LED level indicator to make the current set value more obvious. If any malfunction happen, the customers could quickly realize it and find out what is the problem according to the way that LED indicator flashing.

Specification

- *Low Voltage Warning*
  If the insufficient voltage for the battery (lower than 12V) happen when start the key-on and controller, the grip won't start heating to avoid the insufficient voltage for the engine start.
- *Short Circuit Protection*
  Unique short circuit protection setting. If the system detected the load of grip is shorted when start the key-on can controller, then the LED indicators will all flashing and cut the power supply automatically to protect the controller won't be dam aged.
- *Component malfunction Warning*
  If internal component malfunction to cause the adjustment failure, then the LED indicators will flashing from side to side to inform the customer have to send the product for repairing.

LED Indicator Warning Expression

Flashing from Right to Left

Low Voltage Warning:
Means the voltage is lower than 12V

To Deactivate:
Please start the engine and wait until the voltage of the battery reach 13V

All Flashing

Shot Circuit Protection Warning:
Represent that system detect the load is shorted.

To Deactivate: Please twist the switch to OFF and double check the all wiring to see if there is any short circuit happened.

Flashing from Side to Side

Component Malfunction Warning:
Represent the internal PCB components malfunction.

To Deactivate:
Please turn off the power supply and remove the instrument.

NEW !

MULTI - ADJUSTMENT

E

A

B

C

D

HEAT GRIPS SWITCH

Model	Item number
Multi - Adjustment Switch	*AF00K01*
With **E** switch	*AF00K02*
With **A** switch	*AF1010*
With **B** switch	*AF1011*
With **C** switch	*AF101C0*
With **D** switch	*AF101D0*

NEW !

HEATED GLOVE SWITCH

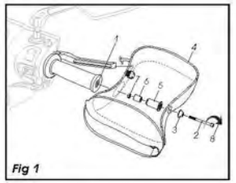
Manufacturer	Item number
UNIVERSAL	★Q5003000★

Specification

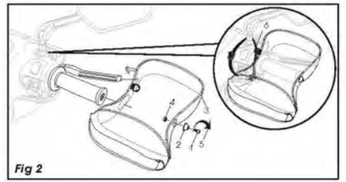
KOSO Heated Gloves adopting water-proof & high temperature resist materials.

Under the cold weather condition, to provide the necessary warmness to rider's hands

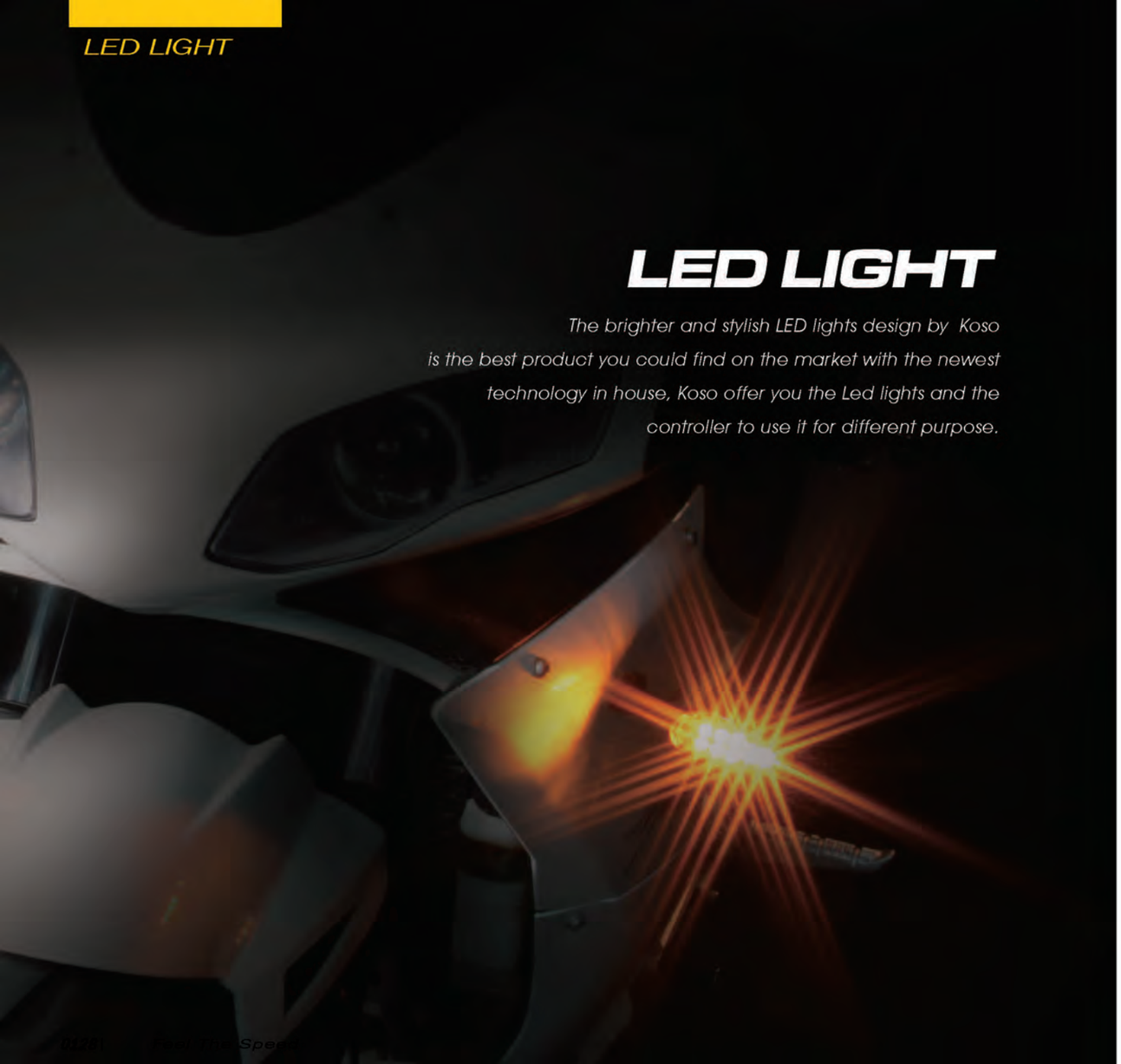
Multi-Layers material mixture to give an perfect expression of the richness design



Installation Step 1



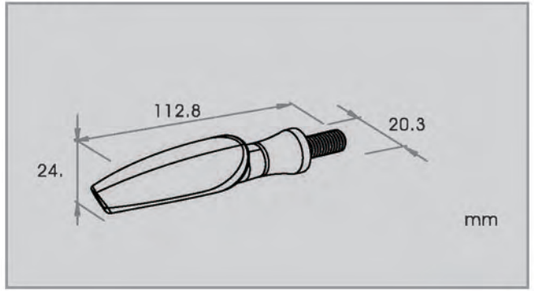
Installation Step 2



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.

Body Size

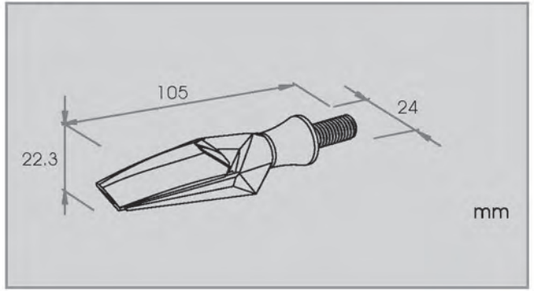


Unlimited

Body Color	Lens	Item number
Black	Clear	*HE015KI0*
Black	Clear	*HE015KI2*
Chrome	Clear	*HE015MI0*
Silver	Clear	*HE015SI0*

NEW !

Body Size

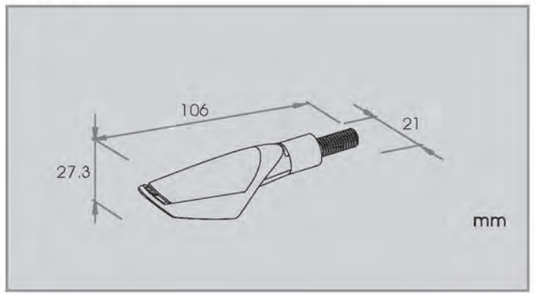


Monster

Body Color	Lens	Item number
Black	Clear	*HE103K00*
Sliver	Clear	*HE103S00*
Chrome	Clear	*HE103M00*

NEW !

Body Size

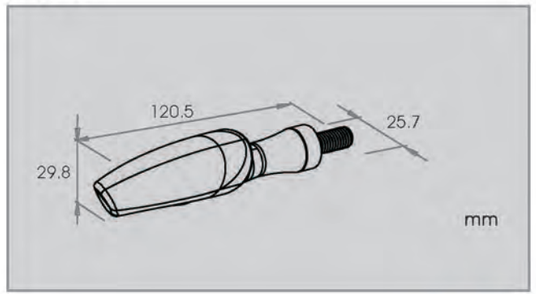


Jet

E4 11/12 607-001 HOMOLOGATED

Body Color	Lens	Item number
Black	Clear	*HE101K00*
Silver	Clear	*HE101S00*
Chrome	Clear	*HE101M00*

Body Size



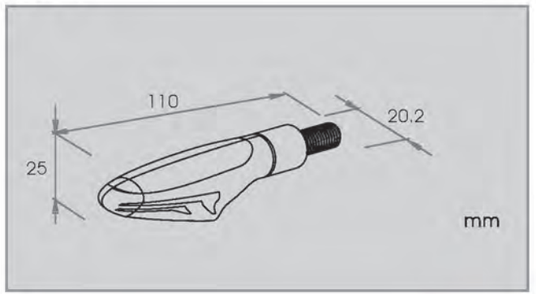
Z1

E4 11/12 607-001 HOMOLOGATED

	Lens	Item number
	Clear	*HE017K06*
	Smoke	*HE017K09*

NEW !

Body Size



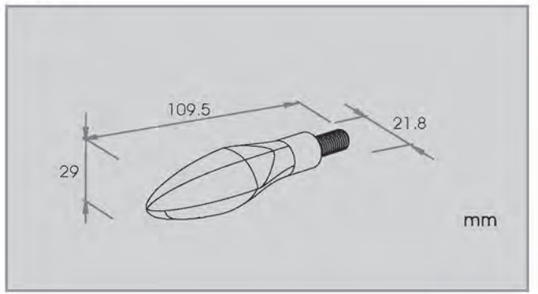
Shark

E4 11/12 607-001 HOMOLOGATED

	Lens	Item number
	Clear	*HE102K00*

NEW !

Body Size

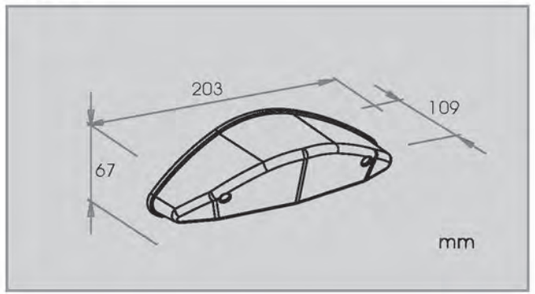


Dual

E4 11/12 607-001 HOMOLOGATED

	Lens	Item number
	Clear	*HE100K00*

Body Size

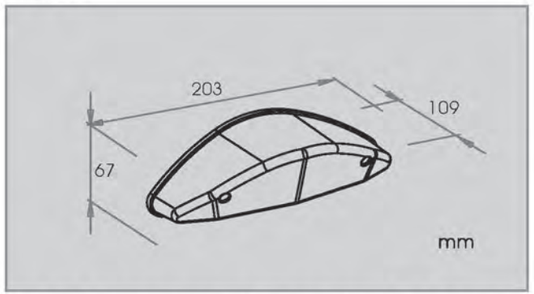


Yamaha Aerox

E9 1112 508-00114D HOMOLOGATED

Lens	Item number
Smoke	*HB511K01*
Red	*HB511R01*
Clear	*HB511W01*

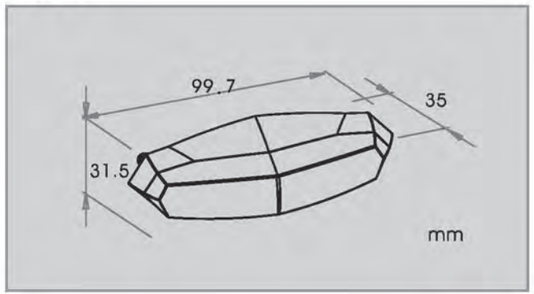
Body Size



BMW R 1100/1150/1200 GS, F-650 GS, F 800 S

Lens	Item number
Smoke	*HB511K21*
Red	*HB511R21*
Clear	*HB511W21*

Body Size



Mini

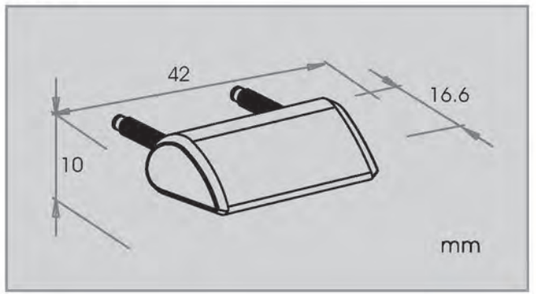
E4 1112 508-00156C HOMOLOGATED

Lens	Item number
Clear	*HB020RD0*
Smoke	*HB020RD1*

NEW !

Body Color	Lens
Black	Clear
Silver	Clear

Body Size

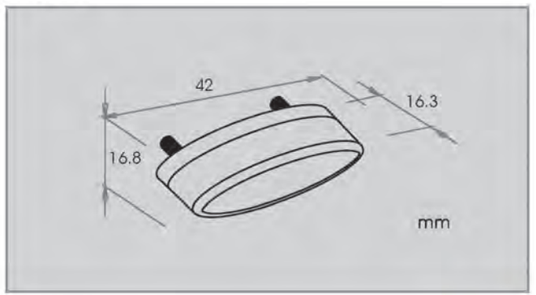


Drop

E4 1112 508-00199D HOMOLOGATED

Body Color	Lens	Item number
White	Clear	*HD0060D0*
Black	Clear	*HD006KD0*

Body Size

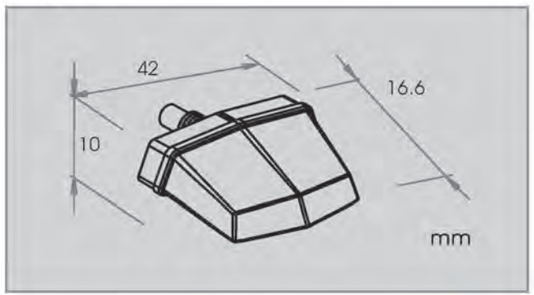


Oval

E9 1112 SOR-001544 HOMOLOGATED

Lens	Item number
Clear	* H B 0 1 2 W 1 8 *

Body Size



Pentagon

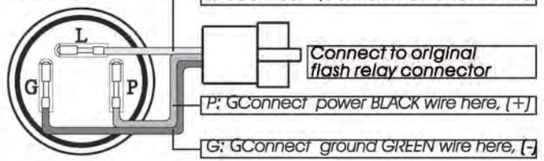
E9 1112 SOR-001155 HOMOLOGATED

Lens	Item number
Clear	* H B 0 1 2 W 1 7 *

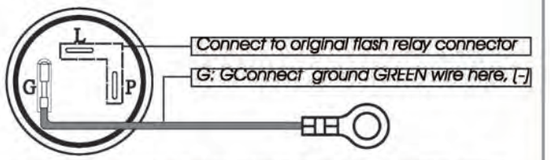
Flasher relay feature

To give the normal flashing frequent to those bike adopting the LED light bulbs modification.
Totally plug & play, extremely easy to install.
Can be adopted by many different model of bike (please check the form below for the detail)
Installing Instruction as below

FOR 3-PIN



FOR 2-PIN



⚠ *Attention! Be sure to take original flash relay out from bike after install new relay.*

⚠ *If the flash relay can not work properly, Please try to change two terminal positionand try again.*

Flasher relay

Manufacturer	Item number
UNIVERSAL	* K D 0 0 6 0 0 0 *

Main power switch wire color referencing list for different manufacturers

	Battery positive	Key on	Ground nagative		Battery positive	Key on	Ground nagative
YAMAHA	RED	BROWN	BLACK	KYMCO	RED	BLACK	GREEN
HONDA	RED	RED/BLACK	GREEN	SYM	RED	BLACK	GREEN
SUZUKI	——	BLACK	GREEN	PGO	RED/WHITE	ORANGE	BLACK
KAWASAKI	WHITE	BROWN	BLACK/YELLOW				

Wiring of positive & negative for battery and main power switch could be different betwee different applying model of bike.

TAILLIGHT BRACKET

Color	Item number
Black Anodize	* B E 9 0 4 K D 0 *
Silver Anodize	* B E 9 0 4 S 0 0 *

Resistor for LED Turn signal

Item number	
* K K 0 0 0 1 1 5 *	20w8.5Ω
* K K 0 0 0 1 1 1 *	10w3Ω