

Opacity Smoke Meter

ECM-801



Optional accessories
Built-in printer,
Wired Hand-held
remote controller



Including Basic accessories
(Probe, Probe hose, Power cord, RS-232
communication cable, fuse, Manual)

Product Features

Opacity Smoke meters, also referred to as opacity meters, detect and measure the amount of light blocked in a sample of smoke emitted by diesel engines from cars, trucks, ships, buses, motorcycles, locomotives and large stacks from industrial operations. The smoke meter readout displays the smoke density giving a measure of the efficiency of combustion. This makes the smoke meter an excellent diagnostic tool to ensure proper maintenance of diesel engines for improved fuel economy and protection of the environment.

- Real-time smoke measurement (% , k [m-1])
- Portable and LED display
- Outstanding accuracy, stability and durability
- Response time of 0.5 second
- Smoke, SOF measurement
- Easy to use with handheld terminal (option)
- Built-in printer (option)
- RS232 PC program
- RPM/ Oil temp. meter (option)
- Auto-Zero/ Span calibration function

Technical Specifications

Model	Opacity Smoke Meter
Type	ECM-801
Measurement items	Smoke concentration (Opacity), absorption coefficient(K-value)
Measurement method	Partial flow sampling method / Light transmission type
Photoelectric element	Green LED (565nm)
Detector	Photodiode
Tube Length / ID	Length: 215mm (± 0.5mm), ID.: 21mm
Measuring range	Opacity: 0% - 100%, K-value: 0.00 – 16.07m ⁻¹
Resolution	0.1% / 0.01m ⁻¹
Accuracy	±1%
Response time	0.5 sec (90%)
RPM	0-8000rpm
Resolution	10rpm
Oil temperature	0 ~ 150°C
Resolution	1°C
Display	4digit 16 Segments
Measurement speed/ display speed	50 times/sec. 4 times/sec
Filter	Bezel low pass digital filter (0.5 second)
Preheating time	Within 5 minutes
Operating Temperature	-10 ~ 40°C
Power supply	AC 220V 50/60Hz
Option	Internal printer, wired remote controller, wireless application for mobile phone, RPM meter & Oil temperature meter, Standard filters

Technical specifications are subject to changes without notice.



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RPM, OIL Temperature Meter

Smart RPM 100



Product Features

Easy and accurate RPM Meter and Engine Oil temperature Meter

* Composition

- Main machine
- RPM sensor (5M)
- 12V adapter
- Oil temperature meter(5M)

Technical Specifications

Details		contents
RPM	Analysis Range	0 ~ 9,000 rpm
	Resolving Power	1 rpm
Oil Temp.	Analysis Range	0 ~ 200 °C
	Resolving Power	0.1 °C
Use Temperature		0 ~ 50 °C
Use Humidity		30 ~ 90 %
Weight		0.3kg
Dimensions		220(W) * 150(H) * 45(D) mm
Power Supply		12V adapter
Power Consumption		350 mA
Communication		RS232