

Opacity Smoke Meter

ECM-801



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

Optional accessories

- Built-in printer
- Wired remote control
- Standard filters
- Wireless App(Android)

Product Features

ECM-801 opacity smoke meter is used to measure the exhaust smoke of diesel engine vehicles, with mainly truck, bus and car. Incorporating a hand-held remote controller or wireless application for complete portability testing within a car, bus or truck.

- Real-time smoke measurement (% , k [m-1])
- Portable and practical operation
- Four large LED displays
- Outstanding accuracy, stability and durability
- Memory 100 measurements data
- Smartphone operable via wireless APP(Android) (option)
- Easy to use with handheld terminal (option)
- Built-in printer (option)
- RPM/ Oil temp. meter (option)
- RS232 PC program
- Auto-Zero/ Span calibration function

Technical Specifications

Model	Opacity Smoke Meter
Type	ECM-801
Measurement items	Smoke concentration (N-value), Light absorption coefficient(K-value)
Measurement method	Partial flow sampling method / Light transmission type
Photoelectric element	Green LED (565nm)
Detector	Photodiode
Cell Length / Inside Diameter	Length: 215mm (± 0.5mm), Inside Diameter: 21mm
Measuring range	Opacity: 0% - 100%, K-value: 0.00 - 16.07m ⁻¹
Smoke Resolution (Opacity / K)	0.1% / 0.01m ⁻¹
Accuracy	±1%
Response time	< 0.5 sec. (90%)
RPM / Resolution	0 - 8000rpm /10rpm
Oil temperature / Resolution	0 - 150°C / 1°C
Display	4 digits 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
Dimensions	425(W) x 160(D) x 245(385)(H) mm
Weight	5.0kg
Probe Length / Inside Diameter	1.5m / 10mm
Option	Internal printer, Wired remote controller, Wireless application for mobile phone, RPM meter & Oil temperature meter, Standard filters(40%, 60%, 80%)

Technical specifications are subject to changes without notice.



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