

## **Auto**Smoke<sup>™</sup>

# **Opacity Meter**

MOT APPROVED & MTS CONNECTED

AutoTest® AutoSmoke Opacity Meter is a compact, lightweight, robust and reliable vehicle smoke analysis tool. Easy to use and maintain, it can be integrated with the AutoTest® AutoGas 4 or 5 gas analyser to provide a comprehensive vehicle emission testing solution.

Test:











#### **Specification**

Power: Designed to be powered either in 13.5 VDC,110 VAC and 230 VAC

## Continuous voltage power supply

• Operating range: 13.5 VDC ±15%

• Required power: 65 W

#### Alternating voltage (AC):

 Operating range: 110-230 VAC +10% -15%

• Frequency: 50-60 Hz ±2%

Effective optical length: 215mm +/-0.5mm

**Tube Preheating time:** 3 to 6 min depending on ambient temperature

**Resolution:** 0.1% or 0.01 m-1

**Accuracy:** < 1.0% of opacity in the full

range

#### Ambient temperature range for operation: +2 to +40°C

Humidity: 30% to 90%

• Storage temperature: -32°C to

Measured gas Temperature: 0-256 C +/- 1

**Light Source:** (LED) spectral peak 560nm ±10nm

Light Detector: peak spectral response 560nm ±10nm

- N value: Scale range from 0.00 to
- K value: Scale range from 000 to 9.99 m-1

Physical response time: < 0.2 sec (10%) to 90%)

Electrical response time: 0.9 sec

#### **Unique Specification**

• Size: 200 mm x 400 mm x 170 mm

· Weight: 9kg

- · Battery operated built in, rechargable
- Automatic Zero adjustment and calibration before use
- · Automatic adjustment for sooting
- Suitable for diesel engines
- Auto-sleep feature
- Weekly calibration check
- WiFi connected
- · PC software controlled



Want More Info on AutoSmoke Opacity Meter?

Scan the QR code grab more info from our website

Note: Outer appearance and specifications are subject to change without prior notice

















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### **Technical Specification**

Measurement Parameters	Range	Resolution	Accuracy	
to exemple 4 (file \$7.00) (file \$4.00) (file \$4.00)			Relative	Absolute
CO (Carbon Monoxide)	0 – 15.5%	1 ppm	±3%	±0.03% Vol
CO <sub>2</sub> (Carbon Dioxide)	0 – 25% Vol	0.1%	±4%	±0.04% Vol
HC (Hydro Carbon)	0 – 20000 PPM	1 PPM	±5%	±10% Vol
O <sub>2</sub> (Oxygen)	0 – 25% Vol	0.01%	±3%	±0.1% Vol
NOx	0 – 5000 PPM	1 PPM	±4%	±25 ppm Vol
Lambda	0.2 – 2.0	0.001		
AFR	0 – 30%	0.01%		
Oil Temperature	0 – 120°C	1°C		ĺ
Engine RPM	600 – 3500 RPM	10 RPM	5%	
Measuring Gas Intake	3 litres/minute			
Leak Test	Electronic			
Condensate discharge	Automatic			
Warm up time at 0°C	<10 minutes			
Zeroing and RPM calibration	Automatic			

## **Electrical Specification**

Operating temperature	+5°C to +45°C
Storage temperature	-20°C to +70°C
Overall machine dimensions, unpacked	W310 x D400 x H210mm
Machine weight, unpacked	9kg

### **General Specification**

AC Power supply	220V to 265V AC, single phase, 50/60 Hz	
DC Power supply	11V to 32V DC battery	
Power consumption	25 Watt	



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DISTRIBUTOR

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