

# **AutoTest**® *AutoSmoke*

Vehicle Emissions testing



**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 emissions testing solution.

**AUTOTEST**  
Products Pty Ltd®

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# AutoTest® AutoSmoke

Vehicle Emissions testing

## Specifications

### General

- **Power:** Designed to be powered either in 13.5 VDC, 110 VAC and 230 VAC
- **Continuous voltage power supply (DC):**
  - Operating range: 13.5 VDC  $\pm$ 15%
  - Required power: 65 W
- **Alternating voltage (AC):**
  - Operating range: 110-230 VAC +10% -15%
  - Frequency: 50-60 Hz  $\pm$ 2%
- **Effective optical length:** 215mm  $\pm$ 0.5mm
- **Tube Preheating time:** 3 to 6 min depending on ambient temperature
- **Resolution:** 0.1% or 0.01 m<sup>-1</sup>
- **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 +55°C
- **Measured gas Temperature:** 0-256 C  $\pm$  1
- **Light Source:** (LED) spectral peak 560nm  $\pm$ 10nm
- **Light Detector:** peak spectral response 560nm  $\pm$ 10nm
  - N value: Scale range from 0.00 to 99.9%
  - K value: Scale range from 000 to 9.99 m<sup>-1</sup>
- **Physical response time:** < 0.2 sec (10% to 90%)
- **Electrical response time:** 0.9 sec
- **Size:** 200 mm x 400 mm x 170 mm
- **Weight:** 9kg
- Battery operated - built in, rechargeable
- Automatic Zero adjustment and calibration before use
- Automatic adjustment for sooting
- Suitable for diesel engines
- Auto-sleep feature
- Weekly calibration check
- WiFi / zigbee connected
- PC software controlled

### Components

Your new AutoTest Opacity Meter includes:

- Opacity Meter chamber
- Power supply and cables
- Sampling probe
- Communication connector



\*AutoTest® AutoGas 4/5 gas analyser is sold separately.

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