

# Automotive Exhaust Monitor

## INDUS SMOKE METER MODEL OMS 104 / 103

Certified by  
**ARAI**



with  
Wireless Remote  
(Optional)

- ◆ High Quality Indian Product with latest technology
- ◆ Very Compact, small in size & light in weight
- ◆ Easy to carry & operate
- ◆ Cable free technology
- ◆ Features battery-based tachometer
- ◆ Conforms to the latest specs of the Ministry of Road Transport & Highways

### SPECIFICATIONS

Principle of Operation	Attenuation of light beam
Geometry	Folded Geometry
Smoke Measuring Cell	215mm
Measurement	Smoke Density in HSU & K; RPM & Oil Temperature
Range	HSU : 0-99.9; K: 0 to $\infty$ RPM : 0-6000; Oil Temperature : 0-150 °C
Resolution	HSU : 0.1%; K: 0.01m <sup>-1</sup> . RPM : 1 (for Piezo) 10 (for Acoustic); Oil Temperature : 1°C
Accuracy	Opacity K : $\pm 0.1m^{-1}$ ; RPM : $\pm 20$ (Abs) or $\pm 2\%$ (Rel); Oil Temperature : $\pm 2^\circ C$
Light Source & Detector	LED & Photocell
Display	16 x 2 Alphanumeric LCD Display with backlight
Keypad	Membrane Keypad , 18 keys, for user friendly operation
Warm-up Time	<20 minutes (Smoke Column Heating); Electronics (< 2min)
Time Constant	Physical : 0.4 sec: Electrical : 1 msec
Temperature Sensor	RTD (PT100) & Thermocouple
RPM Sensor	Acoustic Based Tachometer (Standard), Piezo Sensor, (Optional).
Data Communication	RS232/USB interface for computer connectivity
Printer (Optional)	24-column dot matrix printer, paper width 56 mm
Sampling Probe	3 probes of different diameters along with synthetic rubber hose of length 4m
Calibration	Using calibration filter of known K, Autocal system for mid-point check
Operating Temperature	0-50°C
Measuring Chamber Temperature	80°C
Power Supply	90- 270 V AC/ 11- 12 V DC
Power Consumption	75 W
Dimension	450 x 200 x 140 mm
Weight	8 Kg

Manufactured & Marketed by :

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Certified Company



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