

Automotive Exhaust Monitor

INDUS SMOKE METER MODEL OMS 101



- ❖ **Conforms to the latest specs of the Ministry of Road Trnspt. & Highways**
- ❖ **Long light path and large diameter of smoke pipe ensure high accuracy**
- ❖ **Based on Hartridge Geometry and Microcontroller Technology**
- ❖ **Economical - competitive price, low maintenance cost**

SPECIFICATIONS

Principle of Operation	Attenuation of light beam
Smoke Measuring Cell	430mm
Measurement	Smoke Density in HSU & K; RPM & Oil Temperature
Range	HSU : 0-99.9; K: 0 to ∞
Resolution	RPM : 0-6000; Oil Temperature : 0-150 °C
Accuracy	HSU : 0.1%; K: 0.01m ⁻¹
Light Source & Detector	RPM : 1 (for Piezo), 10 (for Battery); Oil Temperature : 1°C
Display	Opacity K : $\pm 0.1\text{m}^{-1}$, RPM : ± 20 (Abs) or $\pm 2\%$ (Rel); Oil Temperature : $\pm 2^\circ\text{C}$
Keypad	Halogen Bulb & Photocell
Warm-up Time	16 x 2 Alphanumeric LCD Display with backlight
Time Constant	Membrane Keypad , 18 keys, for user friendly operation
Temperature Sensor	Measurement system : < 2min; Smoke Column Heating : < 30 Min
RPM Sensor	Physical : 0.4 sec; Electrical : 1msec
Data Communication	RTD (PT100) & Thermocouple
Printer (Optional)	Piezo Sensor (Standard), Battery Based Tachometer (Optional)
Sampling Probe	RS232 interface for computer connectivity
Calibration	24-column dot matrix printer, paper width 56 mm
Operating Temperature	3 probes of different diameters along with synthetic rubber hose of length 4m
Measuring Chamber Temperature	Using calibration filter of known K, Autocal system for mid-point check
Power Supply	0-50°C
Dimension	80°C
Weight	90- 270V AC/ 11- 12 V DC
Accessory	Control Unit : 340 x 240 x 130 mm; Measuring Unit : 650 x 285 x 245 mm
	Control Unit : 4 Kg; Measuring Unit : 20 Kg
	Wheel Based Trolley



Manufactured & Marketed by :

INDUS Scientific Private Limited

11/2B, Hennur Bande, Hennur Road, Bangalore 560 043

T/F: (080) 2544 9762/ 64, Fax: + 91 80 2543 0914

Email: info@indusscientific.com

Website: www.indusscientific.com



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