



5 GAS ANALYSER



OM - 2100

The AIRSON OM - 2100 is a 5 gas analyzer based on a single beam NDIR (Non - dispersive Infrared) measurement technology. It uses an internal proprietary optical bench using a NDIR technique for gas analysis. The infrared light source filters and detectors are thermally stabilized under micro-processor control technology to measure accurate values of Carbon monoxide(CO), Hydrocarbons(HC), Carbon dioxide(CO₂), Oxygen(O₂) and Nitrogen Oxides(Nox) coming from exhaust emission of vehicles.

MEASUREMENTS

- Carbon Mono Oxide (CO)
- Carbon Dioxide (CO₂)
- Hydro Carbon (HC)
- Oxygen (O₂)
- Lambda
- RPM
- Nitrogen Oxide (Nox)*
- Oil temperature *
- A.F.R.
- Gas Pressure
- Vacuum Pressure
- P.E.F.
- Detector Temperature
- Ambient Temperature

FEATURES

- Indigenous Manufacturing
- Suitable for Petrol/C.N.G/ L.P.G. Vehicles
- L.C.D. Display (13 CM)
- Auto Standby
- Battery Operated (12V D.C.)
- Printer *
- Computer compatibility (USB)
- R.P.M. Measurement (Inductive /Battery*)
- Easy to calibrate
- Auto Zero
- Standard Date and Time Display
- Compatible for On - Line PUC certification
- Measures BS - VI and above vehicles *
- HC residue Check
- Compact Design
- Portable and Highly Mobile
- Error display
- Shock Proof cabinet
- Leakage / Blockage Test
- Alpha numeric membrane Key
- Low Maintenance
- Easy to operate



MAKE IN INDIA

TECHNICAL- SPECIFICATIONS

S.No.	Measuring Quantity	Measurement Range	Resolution	Accuracy
1.	CO (Carbon Monoxide)	0-9.999% by Vol. 10.00 - 12.00% by Vol.	0.001% 0.01%	± 0.03% abs / ± 3% rel.
2.	HC (Hydro Carbon)	0-9999 ppm by Vol. 10000 - 20000 ppm by Vol.	1 ppm 10 ppm	± 10 ppm abs / ± 5% rel.
3.	CO ₂ (Carbon dioxide)	0-20% by Vol.	0.01%	± 0.4% abs / ± 4% rel.
4.	O ₂ (Oxygen)	0-21.7% by Vol.	0.01%	± 0.1 abs / ± 3% rel.
5.	Nox (Nitrogen Oxides)*	0-5000 ppm by Vol.	1 ppm	± 0.1 abs / ± 3% rel.
6.	RPM*	0-9999 rpm 10000 - 40000 rpm	1 rpm 10 rpm	± 1 rpm ± 10 rpm
7.	Oil temp.*	0-150 °C	0.1°C	± 1°C
8.	Lambda	0-9.999	0.001	± 0.3%
9.	A.F.R.	0-99.99	0.01	-----

1.	Measurement Principle (CO, HC & CO ₂)	:NDIR Measurement
2.	Measurement Principle (O ₂ & NOX)	:Electro Chemical
3.	Computer Interface	:USB
4.	Display	:LCD (20 x 4) - 13cm.
5.	Power supply	:230V A.C. 50 Hz ±15% :12 Volt DC ±10%
6.	Power Consumption Approx.	:<40 W
7.	Operating Temperature	:5°C - 45°C
8.	Operating Pressure	:860 hPa - 1060hPa
9.	Operating Relative Humidity	:upto 90%
10.	Response Time	:< 10 sec.
11.	Warm-up Time	:< 10 min. Approx.
12.	Storage Temperature	: -10°C to 60°C
13.	Filters	:Bronze filters (< 5 micron)
14.	Dimensions (w*h*l)	:29cm. *12cm. *29.8cm.
15.	Weight Approx.	:3.37 kg.

STANDARD-ACCESSORIES

- Sampling Pipe
- Sampling Probe
- Inductive RPM Cord
- Supply Cord
- Battery Cord
- Software and PC - Interface Cable

OPTIONAL-ACCESSORIES

- Battery RPM Cord *
- Nox Sensor *
- Oil temp. Cord *
- Data Printer *
- Universal Sampling Adopter Kit *

PC INTERFACE CABLE



SAMPLING PIPE



INDUCTIVE RPM CORD



BATTERY CORD




SAMPLING PROBE




OIL TEMP. CORD




AIRSON ELECTRONICS

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