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## TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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Cert. No. QMS0720020347

## MODEL TCM % O<sub>2</sub>, CO & TEMPERATURE FLUE GAS MONITOR

### THE INSTRUMENT

THE TECHNOVATION COMBUSTION MONITOR MODEL TCM is a small portable battery powered gas analyser measuring OXYGEN, CARBON MONOXIDE readings displayed on 3 ½ digit 12 mm high LCD. The probe for temperature and gas is a single combined probe with a filter and cooler. A rubber connecting hose is provided to connect it to the instrument

### FEATURES

- Compact, lightweight & portable.
- Rechargeable battery powered.
- Integrated gas and temperature probe.
- Internal pump with high suction.
- Instant readings.
- O<sub>2</sub> sensor and CO sensor.
- Ready Reckoners for % combustion efficiency, excess air and % CO<sub>2</sub> for 11 fuels. Provided.

### APPLICATIONS

Model TCM is ideal for checking of flue gases of BOILERS, FURNACES, CEMENT KILNS OR HEATERS for excess air or unburnt combustibles condition to increase combustion efficiency. Model TCM can also be used for checking the calibration of on-line equipment or substitute for it semi continuously with certain precautions. Model TCM can serve at any required spot in the plant or for laboratory use, being portable and quick and easy to use. The fuel/air ratio is optimum when CO indication just becomes present from a no CO situation after a small reduction in air supply. The fuel/air ratio can be fine-tuned as the operator reads O<sub>2</sub> and CO simultaneously, keeping both CO & O<sub>2</sub> to a practical minimum to optimise combustion.

### STANDARD SPECIFICATIONS

OXYGEN	: 0 - 25% O <sub>2</sub> in 0.1 % steps
CARBON MONOXIDE	: 0 - 2% CO standard range in 0.01% steps
Calibration	: Oxygen -Using ambient air. Carbon monoxide - Using Certified calibration gas
Accuracy	: ± 2 % of reading at constant temperature & pressure.
Sensor	: Electrochemical.

### SAVE FUEL AND MONEY



## TECHNOVATION® MODEL TCM

### STANDARD SPECIFICATIONS CONTINUED

Expected life	: O <sub>2</sub> sensor 2 years. CO sensor 2-3 years.
Temperature Probe	: Standard up-to 600°C using CU tube. Cr. Al thermocouple.
<b>GENERAL</b>	
Response Time	: 90% in 30 secs.
Working temp	: 5°C to 45°C
Size	: 260 x 130 x 80 mm
Weight	: 1.5 Kg
Power	: 12 V Rechargeable battery
Pump Suction	: 6 " Hg Column
Pump Flow	: 0.5 L/min
Gas Temperature	: 600 °C STD probe with Rubber hose length: 1.5 meter
STD Probe length	: 600 mm long

### ACCESSORIES

Manual, Carrying case & Battery charger

### OPTIONAL EXTRA

#### Probe

- High temperature probe 1100 °C
- Extra long probe

**CO Range** 0 — 10 %, 0.01% steps