



TECHNOVATION Analytical Instruments Pvt.Ltd

OFFICE :204 Deccan Court, 259 S.V. Road, Bandra (W), Mumbai-400050

Tel : 91-22-2641 3288 • Fax : 91-22-2643 1585 • E-mail : taipl@vsnl.com

• Website: www.technovationindia.com www.indiamart.com/technovation

FACTORY: W-312 13 TH Cross road M.I.D.C Rabale, Navi Mumbai . 400701.

Certified ISO 9001: 2000 by



CERT. NO. 217910

MODEL TCM % O₂, CO & TEMPERATURE FLUE GAS MONITOR INSTRUMENT

SAVE FUEL AND MONEY

THE TECHNO COMBUSTION MONITOR MODEL TCM is a small portable battery powered gas analyser measuring OXYGEN, CARBON MONOXIDE readings displayed on 3 1/2 digit 12mm 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 , light weight & portable.
- Rechargeable battery powered.
- gas and temperature probe.
- Internal pump with high suction. Instant readings.
- sensor and CO sensor.
- Ready - Reckoners for % combustion efficiency, excess air and %CO₂ 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 O₂ and CO simultaneously, keeping both CO & O₂ to a practical minimum to optimise combustion.

STANDARD SPECIFICATIONS

OXYGEN	: 0 - 25% O ₂ in 0.1 % steps
CARBON MONOXIDE	: 0 - 2% CO standard range in 0.001 % steps.
Calibration	: Oxygen -Using ambient air. Carbon monoxide - Using Certified calibration gas.
Accuracy	: ± 2 % of reading at constant temp.
Sensor	: Electrochemical

TECHNOVATION® MODEL TCM

STANDARD SPECIFICATIONS CONTINUED

Expected life : O₂ sensor 2 years. CO sensor 2-3 years.
 Temperature Probe: Standard:- up-to 600°C using CU tube. Cr. Al thermocouple.

GENERAL

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/m
 Gas Temperature : 600 o C at STD probe
 Rubber hose length: 1.5 meter
 STD Probe length : 600 mms long

ACCESSORIES

Carrying case & Battery charger

OPTIONAL EXTRA

Probe ■ High temperature probe 1100 °C
 ■ Extra long probe
 CO Range 0 – 10 %, 0.01% steps