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## TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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Cert. No. QMS0720020347

## MODEL FGM % O<sub>2</sub>, CO FLUE-GAS MONITOR

### THE INSTRUMENT

THE TECHNOVATION COMBUSTION MONITOR MODEL FGM is a small portable battery powered gas analyser measuring % OXYGEN, CARBON MONOXIDE readings which are displayed on a 3 1/2 Digit, 12mm high LCD. The gas probe is a single copper tube combined with a filter. A rubber connecting hose is provided to connect it to the instrument.

### FEATURES

- Compact, light weight & portable.
- Rechargeable battery powered.
- Combined gas probe and filter.
- Internal pump with high suction. Instant readings.
- Low-cost long-lasting oxygen sensor and CO sensor.
- Ready - Reckoners for % combustion efficiency, excess air and % CO<sub>2</sub> for 11 fuels is provided.

### APPLICATIONS

Model FGM is ideal for checking of flue gases of BOILERS, FURNACES, CEMENT KILNS OR HEATERS for excess air or un-burnt combustibles condition to increase combustion efficiency. Model FGM can also be used for checking the calibration of on line equipment or substitute for it semi continuously with certain precautions. Model FGM 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 optimize combustion.

### STANDARD SPECIFICATIONS

Oxygen : 0-25 % in 0.1 % steps.  
 Carbon monoxide : 0-2 % CO standard range in 10 ppm steps.  
 Calibration : Oxygen using ambient air  
 Carbon monoxide using certified calibration gas.

### SAVE FUEL & MONEY



## TECHNOVATION<sup>®</sup> MODEL FGM

### STANDARD SPECIFICATIONS CONTINUED

Accuracy : ± 2% of reading at constant temperature. & pressure.  
 Sensor life : Electrochemical Expected life O<sub>2</sub> sensor 2 years, CO sensor 2-3 years.  
 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 LPM  
 Probe : Copper tube 4 meters length with filter & rubber tubing

### ACCESSORIES

Manual, Carrying case, Battery charger, Calibration Screwdriver, Rubber Tubing, Probe, Filter Tube.

### OPTIONAL EXTRA

Probe : High temperature probe for 1200°C  
 CO Range : 0 - 10 % With 0.010% steps.