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## TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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# MODEL FEM - 15 COMPACT PORTABLE FUEL EFFICIENCY MONITOR

## THE INSTRUMENT

The 128X64 Graphic LCD display and fully menu driven to ensure simplicity in use. Trouble-free performance, cost effectiveness and reliability. Stored data can be viewed or downloaded to a computer. through an USB C port

## FEATURES

- Measured parameters: Oxygen, & Temperature. Optionally three additional gases based on Electrochemical sensors, CO<sub>2</sub> gas based on NDIR sensor and One Pellistor sensor can also be incorporated. Please see table for gases. .
- Stored parameters: Date, Time, and all selected parameters of each reading is data logged
- Data stored and can be downloaded to a computer for permanent storage and subsequently printed.
- Report Menu to View specific range of readings
- Calculated Parameters: CO<sub>2</sub> if sensor not installed. Excess Air, Total efficiency and Heat Losses of four different types, among others.
- User programmable for three non-conventional fuels. (One each for solid, liquid & gaseous fuels)
- Rubber jacket provided for instrument.
- Data for twenty-eight standard fuels preprogrammed.
- Elegant Gas cum Temperature probe with integral filter and cooler. Molded hose of 1m length.
- Auto and Manual sampling modes
- Auto Oxygen Calibration on request.
- Auto power OFF

## APPLICATIONS

Measurement of exhaust gases of Boilers, Furnaces, Heaters, Kilns in order to improve combustion efficiency and reduction of pollutant gases released by these devices

## STANDARD SPECIFICATIONS

- Display : 128x64 Graphic LCD display with back light
- Power : 3.7 V LiON rechargeable Battery
- Low battery : Indication provided.
- In -Built Pump : 5" Hg suction, 0.7 LPM flow
- Working Temp. : 5 TO 45 °C
- Size & Wt : 23x13x4.5cm & 0.8kg.
- Keys : Power and 3 navigation keys
- Temp. probe : Thermocouple, K type
- MOC : ABS plastic case.

OPTIMIZE COMBUSTION EFFICIENCY

ANALYSE DATA AND SAVE MONEY



## TECHNOVATION<sup>®</sup> MODEL FEM-15 STANDARD SPECIFICATIONS CONTINUED

- Sensors : Electrochemical. NDIR and pellistor options. Expected life for O<sub>2</sub> is 2 yrs & EC is 3 yrs.
- Probe : Gas Cooler and filter integral
- Probe length : Total 50 cm with integral thermocouple
- Data storage : Up to 400 readings
- Data output : USB -C port.
- Indicators : LEDs for Battery Charging, Rx, Tx, Lo Bat, Fault, Confidence Flash and Pump
- Gases & Ranges : Instrument supplied with Oxygen & temperature sensors, additional sensors available as per table below

## ACCESSORIES

Instrument manual, Battery Charger USB C type, Probe assembly, Interconnecting Hose (1.0 m length, Carrying case.

## OPTIONAL EXTRA

- Parameters other than Oxygen and temperature. Gases – as listed below.

SENSOR	STANDARD GASES		OPTIONAL GASES				
	EC	TC	ELECTROCHEMICAL			NDIR	PELISTER
GAS	O <sub>2</sub> %	TEMP °C	CO PPM	SO <sub>2</sub> PPM	NO <sub>2</sub> PPM	CO <sub>2</sub> %	HC(CH <sub>4</sub> )
RANGE	0 - 25	0-450	0 - 2000	0-20	0 - 20	0 – 20	0-5 %
RESOLUTION	0.1	1	1 ppm	0.1	0.1	0.1	0.01 %