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## TECHNOVATION ANALYTICAL INSTRUMENTS PVT. LTD.

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# MODEL FEM - 7 $\mu$ P BASED PORTABLE FUEL EFFICIENCY MONITORS

## THE INSTRUMENT

The microcontroller and architecture ensure simplicity in use, trouble-free performance, cost effectiveness and reliability. Operation is with the help of seven keys and fully menu driven. Stored data can be viewed or downloaded to a computer through an USB port.

## FEATURES

- Measured parameters: Oxygen, & temperature. Optionally Four additional gases based on electrochemical sensors, and Two gases based on NDIR sensors OR One Pellistor and One NDIR sensor can also be incorporated. Please see table for optional gases and their ranges offered
- Stored parameters: Date, Time, Name of Company surveyed / Equipment / Sampling Point which is User Programmable 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: Excess air, total efficiency and heat loss of 4 different types, among others.
- User programmable for three non-conventional fuels. (One each for solid, liquid and gaseous fuels)
- Data for twenty-eight standard fuels preprogrammed.
- Elegant Gas cum Temperature probe with integral filter and cooler. Molded hose of 1.5 m length.
- Auto and Manual sampling modes
- Auto Oxygen Calibration at start-up 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 : 128 x 64 Graphic with Backlight  
Power : 6 V NiMH rechargeable Battery

## OPTIMIZE COMBUSTION EFFICIENCY

## ANALYSE DATA AND SAVE MONEY



## TECHNOVATION<sup>®</sup> MODEL FEM-7

### STANDARD SPECIFICATIONS CONTINUED

- Low battery : Indication provided.
- In-Built Pump : 8" Hg suction, 1 liter/min flow
- Sensors : Electrochemical. NDIR and pellistor options. Expected life for O<sub>2</sub> is 2 yrs & EC is 3 yrs.
- Size & Wt : 26 x 14 x 10 cm x 1.8kg.
- Working Temp. : 5 TO 45 °C
- Temp. probe : Thermocouple, Ktype
- Probe length : 45 cm (Approx) Copper Tube
- Probe : Gas Cooler and filter integral
- Data storage : Upto 400 readings Data output : USB port.
- Gases & Ranges : Instrument supplied with Oxygen & temperature sensors, additional sensors available as per table below.

## ACCESSORIES

Instrument manual, Battery Charger, Probe assembly, Interconnecting Hose (1.5 Mtr length), USB Cable, Silicon grease box, Carrying case.

## OPTIONAL EXTRA

- Probe - High temperature probe of 1100 °C, extra-long probe available
- Gases - Alternate gases on request.
- Interconnecting hose of probe – 3-meter length.

SENSOR	STANDARD GASES		OPTIONAL GASES							
	EC	TC	ELECTROCHEMICAL				NDIR		PELISTER	
GAS	O <sub>2</sub> %	TEMP °C	CO%	SO <sub>2</sub> PPM	NO PPM	NO <sub>2</sub> PPM	H <sub>2</sub> S PPM	CO <sub>2</sub>	CH <sub>4</sub> %	HC% (CH <sub>4</sub> )
RANGE	0 - 25	0-600	0 - 2	0-2000	0 -2000	0 - 800	0 - 200	0 - 20	0 - 5	0-5
RES	0.1	1	0.001	1	1	1	1	0.1	0.01	0.01