



## TECHNOVATION Analytical Instruments Pvt.Ltd

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Certified ISO 9001: 2000 by



CERT. NO. 217910

## MODEL FEM - 55 $\mu$ P BASED PORTABLE FUEL EFFICIENCY MONITORS THE INSTRUMENT OPTIMIZE COMBUSTION EFFICIENCY AND SAVE MONEY

The microprocessor and architecture ensure simplicity in use, trouble-free performance, cost effectiveness and reliability. Operation is with the help of only 5 keys. Series FEM incorporates microprocessor key controls which are fully menu driven. Stored data can be viewed or downloaded to a computer or printed out by an external printer. A built in pump draws flue-gas through the integrated temperature cum gas probe. The instrument works on an inbuilt rechargeable battery.

### FEATURES

- $\mu$ P Calculated values % CO<sub>2</sub>, % Excess Air, Nett & Gross Efficiencies
- Date, Time, Name of Instrument's Owner Name of Company surveyed, Equipment & Education Point which is User Programmable and all selected parameters of each reading is data logged
- Data stored and can be Printed and Down loaded to a computer for permanent storage.
- User Programmable by operator for a non conventional fuel.
- Formulae for 9 standard fuels pre programmed.
- Auto and Manual sampling modes
- Elegant Gas cum Temperature probe with integral filter and cooler. Molded hose of 1.5 m length provided.
- Auto Oxygen Calibration at start-up.
- Report Menu allows User to View & Print data & select for Printing specific range of readings
- Fuels: Coal 4000, Coal 5500, Lignite, Coke, LPG, Natural Gas, L.S.H.S., F.O., L.D.O., Bagasse, Husk, Wood & User Fuel.

### APPLICATIONS

For 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	: 20 X 4 Alphanumeric with Backlight
Power	: 6 V rechargeable Battery
Low battery	: Indication provided.
Pump	: 8 " HG Column suction, 1 liter/ min flow
Sensors	: Electrochemical. Expected life for O <sub>2</sub> is 2 yrs & toxic is 3 yrs.
Size & Wt	: 26 x 14 x 10 cm x 1.8 kg Nett.



### TECHNOVATION® MODEL FEM - 55

#### STANDARD SPECIFICATIONS CONTINUED

Working Temp.	: 5 TO 45°C
Temperature probe:	Thermocouple, K type
Temperature range:	0 – 600 ° C Sample Temp.
Temp. Resolution	: 1 ° C
Probe length	: 60 cm Copper Tube
Probe	: Cooler and filter integral
Rubber Hose	: 2 m Length
DATA STORAGE	: Upto 100 readings
DATA OUTPUT	: PRINTER ( Dotmatrix ) & RS –232 serial port.
Gases & Ranges	: Instrument supplied with Oxygen & temperature sensors, additional sensors available as per table below.

GAS, RANGE & RESOLUTION					
GAS	O <sub>2</sub>	CO	SO <sub>2</sub>	NO	NO <sub>2</sub>
RANGE	0-25%	0-2 %	2000ppm	2000ppm	800ppm
RESOLUTION	0.1 %	.001%	1 ppm	1 ppm	1 ppm

### ACCESSORIES

Instrument manual, Battery Charger, Probe assembly, Connecting Hose, Printer Cable, Serial Cable, Soft Carrying Case for above

### OPTIONAL EXTRA

Probe	High temperature probe of 1100 ° C extra long probe available
Gases	Alternate gases on request.