

PORTABLE GAS ANALYZER

HANDHELD GAS ANALYZER IMPROVES EFFICIENCY, REDUCES POLLUTION & SAVES FUEL



FEM 940

ENDEE's FEM 940 is a small, handheld and a convenient instrument to test & achieve optimum combustion efficiency in boilers & furnaces, a dire necessity in today's world of ever increasing fuel costs and a great value for money with quick pay back period of few months.

SPECIAL FEATURES

- Portable, Rugged, Convenient and Economical
- Self Calibration & Self Diagnostic
- Displays Oxygen Content, Temperature Differential & Combustion efficiency instantaneously
- Long Life Oxygen Sensor specific for combustion process. No adverse effect of acidic gases like CO, SO₂, NO_x etc.
- Sturdy Chromel Alumel Thermocouple suitable for upto 1000 °C, 600 °C for FEM 940
- Easy to learn and easy to use : Powerful micro controller provides acoustic & visual messages for easy use
- User Selectable Fuels - Oil, Coal, Gas
- Discrete LEDs to indicate - FAULTS, FUELS, Operation Status, Parameter on Display
- Automatic Self Calibration: Field Calibration is automatic & begins with every start up with fresh air aspirated instead of Gas sample
- Automatic self check for efficiency calculation: With aspirated fresh air specific percentage efficiency of the selected fuel is displayed as a check on its calculations
- Self Supervisory Diagnosis : Continuously checks the status of:-
 - 1) Battery Voltage
 - 2) Sample Flow
 - 3) Oxygen Sensor
- Sturdy stainless steel sampling probe with extension tubing for ease of measurement
- Thermocouple in the tip of probe measures temperature at point of sampling to minimise error
- Time tested high suction inbuilt sampling pump acts against draft. Supervisory circuit continuously monitors it against failure.
- Inline Filter to Inbuilt Moisture & Dust, Disposable easy to replace filter element. Supervisory Diagnostic circuit continuously checks it against choking
- Retains the readings till the next sampling
- Compact Aluminum Housing
- Rechargeable Ni-cad battery pack with charger
- Maintenance & Spare Parts: Designed for maintenance free operation. Long Life Sensor

SPECIFICATIONS

Type	: Portable
Detectable gases / parameters	: Toxic and Oxygen
Electronics / processor	: Micro-controller
Power supply	: Rechargeable battery with charger
Display	: Graphical LCD display
Alarm	: Audio / visual
Output	: RS 232 / Datalogger
Technology	: TCD
Resolution	: 1 mg/m ³ , 1 PPM, 1% V/V
Accuracy	: ± 0.5 % FS
Response time	: less than 30 sec, sensor dependent, delay time to be added
Operating temperature	: 0 - 55 °C
Sampling / input	: Auto suction
Housing / case	: ABS Plastic
Included accessories	: Battery charger, sampling probe up to 600°C, leather carry case
Optional accessories	: High temperature probe up to 600 °C, air filter
Fuels	: User Selectable Oil, Coal, Gas
Self diagnosis	: Combustion efficiency test with diagnostic indications
Line filter	: Replaceable Cartridge
External dimensions	: 222 X 105 X 40 mm
Weight	: 500 gm
Probe length	: SS 600mm length standard (900mm, 1200mm, Optional)

GASES AND RANGES

O ₂	: 0 - 25	%V/V
CO	: 0 - 2000	PPM
CO ₂	: 0 - 25	%V/V
Diff. Temp	: 25 - 650	°C
Efficiency	: 0 - 99	%
Lambda	: Calculated	

Note : Images shown are indicative only. Specifications and Features will vary with application. There may be changes overtime due to continuous development process.
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