

COMBUSTION GAS ANALYZER IMR 1400 PS

IMR 1400 PS

- measures flue gases of
 - Boilers
 - Burners
 - Engines
- has been developed to meet the customers need
- is a high quality combustion gas analyzer using the latest sensor technology
- is easy to use and will measure all important parameters to adjust and optimize the combustion process
- has all features for a complete analysis



STANDARD FEATURES

- Portable and very compact combustion gas analyzer housed in a rugged aluminum case
- Simultaneous measurement of
 - O₂ Oxygen
 - NO Nitric oxide
 - TG Flue-gas temperature
 - CO Carbon Monoxide
 - SO₂ Sulfur dioxide
 - AG Ambient air temperature
- Calculation of following parameters according ASME-equations
 - Combustion efficiency
 - Excess Air
 - Losses
 - CO₂ Carbon Dioxide
- 7 Fuels are programmed – 5 fuels are programmable
- Automatic zero calibration
- Thermal printer
- Electronic controlled soot measurement
- Draft measurement
- CO-bypass valve with purging pump
- RS 232 interface
- Memory for 200 measurements
- Rechargeable battery with charger
- 12V DC power jack
- Integrated self-check program
- Simultaneous display of eight parameters on the illuminated display
- Unit selection : ppm - mg - mg(ref O₂) – mg/kWh
- Gas sampling probe S with heated handle – length 0.9 ft , hose 11.5 ft
- Power supply 110V or 230V

OPTIONAL FEATURES

- ◆ Gas sampling probes with different lengths
- ◆ NO₂-measurement
- ◆ HC-measurement



PARAMETER	PRINCIPLE	RESOLUTION	ACCURACY	RANGE	STANDARD
O₂ Oxygen	Electro-chemical cell	0.1 Vol.%	± 0.2 %	0-20.9Vol. %	✓
CO Carbon monoxide	Electro-chemical cell	1 ppm	5 %	0-2000/4000ppm	✓
CO_p CO pure	Calculation	1 ppm	5 %		✓
NO Nitric oxide	Electro-chemical cell	1 ppm	5 %	0-2000 ppm	✓
NO₂ Nitric dioxide	Electro-chemical cell	1 ppm	5 %	0- 100 ppm	
SO₂ Sulfur dioxide	Electro-chemical cell	1 ppm	5 %	0-4000 ppm	✓
HC Hydrocarbons	Sensor	0.1%	5 %	0-100% LEL	
TG Flue gas temperature	NiCr-Ni thermocouple	1 K	± 2 %	-4°F / 2192°F	✓
TA Air temperature	Semiconductor	1 K	± 0.5 K	-4°F / 248°F	✓
P Draft	Solid state	0.004" H ₂ O	± 2 %	- 12" / 20" H ₂ O	✓
CO₂ Carbon dioxide	Calculation	0.1 Vol.%	± 0.2 %	0- CO ₂ max	✓
Efficiency	Calculation	1 %	± 0.5 %	0-99.9 %	✓
Losses	Calculation	1 %	± 0.5 %	0-99.9 %	✓
Excess Air	Calculation	1 %	± 2 %	0-999 %	✓
Soot	Filter paper method				✓

Other measurement ranges are available upon request
 Equipped with max 4 sensors, HC or SO₂ in exchange with NO₂

MODEL

IMR 1400 PS

Dimensions (inch): 16.7 x 7.3 x 11.4

Weight: 13 lb. (5.8kg)

PART-NO.

IMR 14295

Useable for all fuels

Solid, liquid and gaseous fuels have varying calorific values according to quality. To calculate fuel efficiency the IMR analyzers store the most common fuel factors. Among other things the fact whether improvement is made through a blower or atmospherically is taken into account. If desired any other fuel factor can be entered by IMR. Apart from his IMR combustion gas analyzer have programmable storage locations so that the operator himself can enter unusual fuel factors on the job. The fuel factor program is modified according to countries so that for each country the appropriate fuel factors are available.

Represented by:

