COMBUSTION GAS ANALYZER

IMR 2800 P

THE ALL NEW
IMR 2800 P Series

NEW FEATURES OF THE 2800P-Series

- Latest sensor technology for a more accurate measurement and longer life time
- Improved interior design for easier service and better unit protection
- Continuously and simultaneously measuring up to 18 parameters
- Larger display for a better reading
- Applications: Boilers, Burners, Engines, Turbines, Cars, Trucks, Plants, Chemical Industries, Steel Plants, Refineries, etc

STANDARD FEATURES

- Portable combustion gas analyzer housed in a rugged aluminum case
- Simultaneous measurement of

O_2	Oxygen	NO_2	Nitrogen dioxide
CO	Carbon Monoxide	SO_2	Sulfur dioxide
NO	Nitric oxide	TG	Flue-gas temperature
TA	Ambient Air temperature		

- Calculation of following parameters

Losses / Efficiency		NO_x	Nitrogen Oxides
Excess Air / Lambda		CO_2	Carbon Dioxide

- 23 Fuels are programmed – 4 fuels are programmable
- Automatic zero calibration
- Integrated self-check program
- Simultaneous display parameters on the illuminated display
- Printer with programmable print out cycles
- Standard deviation and average value calculation
- Draft measurement with optional upgrade for differential draft and velocity measured with a Pitot tube
- Unit selection : ppm – mg/Nm^3 – mg/Nm^3(ref O_2)
- Gas sampling probe E – length 0.8 ft (250mm), hose 8 ft (2.5m)
- Rechargeable battery with charger
- Power supply 110V or 230V or 12VDC Power Jack

OPTIONAL FEATURES

- HCl, N_2O, CL_2, H_2, NH_3, HC or H_2S measurement
- CO_2, CH_4/HC and N_2O NDIR sensors available
- Speed RPM
- Prepared for high temperature measurement (up to 2732 °F / 1500 °C)
- Gas sampling probes with different lengths
- Soot measurement
- Pitot Tube
- Gas Flow m/s
- Additional Instruments: RPM Meter, Soot Meter

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PARAMETER	PRINCIPLE	RESOLUTION	ACCURACY	RANGE**	STANDARD
O_2 Oxygen	Electro-chemical cell	0.1 Vol.%	± 0.2 Vol. %	0-20.9 Vol. %	✓
CO Carbon monoxide	Electro-chemical cell	1 ppm	Z	0-2000/4000ppm	✓
	NDIR	0.001 Vol.%		0-10/20 Vol.%	NDIR Optional
NO Nitric oxide	Electro-chemical cell	1 ppm	Z	0-2000 ppm	✓
NO_2 Nitrogen dioxide	Electro-chemical cell	1 ppm	Z	0- 100 ppm	✓
SO_2 Sulfur dioxide	Electro-chemical cell	1 ppm	Z	0-4000 ppm	✓
H_2S Hydrogen Sulfide	Electro-chemical cell	1 ppm	Z	0- 200 ppm	
HC/CH4 Hydrocarbons	Pellistor or NDIR	0.1 %	Z	0-100% LEL	
TG Flue gas temperature	NiCr-Ni thermocouple	1 K	± 2 %	-4°F - 2192°F 0°C - 1200°C	✓
TA Air temperature	Semiconductor	1 K	± 0.2 K	-4°F / 248°F 0°C - 120°C	✓
P Draft	Solid state	0.01 hPa	± 2 %	±40 hPa	✓
NO_x Nitrogen oxides	Calculation	1 ppm	Z	0-NO_x max	✓
CO_2 Carbon dioxide	Calculation	0.1 Vol.%	± 0.2 Vol. %	0- CO_2 max	✓
CO_2 Carbon dioxide	NDIR	0.01 Vol.%	± 0.2 Vol. %	0-20 Vol. %	
NH_3 Ammonia	Electro-chemical	1 ppm	Z	0-1000/5000 ppm	
N_2O Nitrous Oxide	NDIR	0.001 Vol. %	Z	0-1 Vol. %	
HCl Hydrogen Chloride	Electro-chemical	1 ppm	Z	0-200 ppm	
Cl_2 Chlorine	Electro-chemical	1 ppm	Z	0-5000 ppm	
H_2 Hydrogen	Electro-chemical	1 ppm	Z	0-10000 ppm	
Losses / Efficiency	Calculation	0.1 %	± 0.1 %	0-99.9 %	✓
Excess Air / Lambda	Calculation	0.1 %	± 0.1 %	1.0-9.99	✓
Soot	Filter paper method			0-9	
Velocity with Pitot tube	Solid state	0.01 m/s	± 2 %	0-80 m/s	
RPM Meter	Solid state	100 RPM	± 2 %	180-10000 RPM	

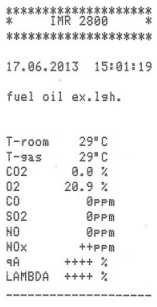
** *Different/customized ranges available.* *Equipped with a maximum of 8 gas sensors*

Z = 0 - 20 % of whole measurement range ± 5 %
21 - 100 % of whole measurement range ± 1 % of displayed measurement

MODEL
IMR 2800 P
Dimensions (inch): 15 x 6.5 x 12.4
(375mm x 165mm x 300mm)
Weight: 17 lbs. (8 kg)

PART-NO.
IMR 28000

Represented by:



OPTIONAL ITEM
Soot Meter

RPM Meter

Pitot Tube

PART-NO.
Soot Meter
RPM Meter
Pitot Tube