



Environmental Equipment, Inc.

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www.imrusa.com

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
 - O₂ Oxygen
 - CO Carbon Monoxide
 - NO Nitric oxide
 - TA Ambient Air temperature
 - NO₂ Nitrogen dioxide
 - SO₂ Sulfur dioxide
 - TG Flue-gas temperature
- Calculation of following parameters
 - Losses / Efficiency
 - Excess Air / Lambda
 - NO_x Nitrogen Oxides
 - CO₂ 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
- RS232 (DB9/USB type B port)
- 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/Nm³ – mg/Nm³(ref O₂)
- 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, N₂O, Cl₂, H₂, NH₃, HC or H₂S measurement
- ◆ CO₂, CH₄/HC and N₂O 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

THE PRIDE OF THE COMPANY - MADE IN USA -



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PARAMETER	PRINCIPLE	RESOLUTION	ACCURACY	RANGE**	STANDARD
O₂ 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	✓
NO₂ Nitrogen dioxide	Electro-chemical cell	0.1 ppm	Z	0- 100 ppm	✓
SO₂ Sulfur dioxide	Electro-chemical cell	1 ppm	Z	0-4000 ppm	✓
H₂S Hydrogen Sulfide	Electro-chemical cell	0.1 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°C/1°F	± 2 %	-4°F - 2192°F 0°C - 1200°C	✓
TA Air temperature	Semiconductor	1°C/1°F	± 2 %	-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	✓
CO₂ Carbon dioxide	Calculation	0.1 Vol. %	± 0.2 Vol. %	0-CO ₂ max	✓
CO₂ Carbon dioxide	NDIR	0.01 Vol. %	± 0.2 Vol. %	0-20 Vol. %	
NH₃ Ammonia	Electro-chemical	1 ppm	Z	0-1000/5000 ppm	
N₂O Nitrous Oxide	NDIR	0.001 Vol. %	Z	0-1 Vol. %	
HCl Hydrogen Chloride	Electro-chemical	1 ppm	Z	0-200 ppm	
Cl₂ Chlorine	Electro-chemical	1 ppm	Z	0-5000 ppm	
H₂ 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

* IMR 2800 *

17.06.2013 15:01:19
fuel oil ex. lgh.

OPTIONAL ITEM

Soot Meter

RPM Meter

Pitot Tube

PART-NO.

Soot Meter

RPM Meter

Pitot Tube

Represented by:

IMR Environmental Equipment, Inc. reserves the right to adopt technical modifications without prior notice

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