

Environmental Equipment, Inc.

2800P

COMBUSTION GAS ANALYZER IMR 2800P SERIES

IMR 2800P

- Designed to measure flue gases on
 - > Boilers
 - > Burners
 - ➢ Engines
- Developed to meet the customers need
- High quality combustion gas analyzer using the latest sensor technology
- Easy to use and measures all the important parameters to adjust and optimize the combustion process
- Integrated Printer: each printout includes all information on the display
- Applications: Boilers, Burners, Engines, Turbines, Cars, Trucks, Plants, Chemical Industries, Steel Plants, Refineries, etc.

STANDARD FEATURES

- Portable and very compact combustion gas analyzer housed in a rugged aluminum case
- Simultaneous measurement of
 - \triangleright O₂ Oxygen
 - ➢ CO Carbon Monoxide
 - ➢ NO Nitric Oxide
 - \succ SO₂ Sulfur Dioxide
 - \blacktriangleright NO₂ Nitrogen Dioxide
 - \rightarrow HC/CH₄ Hydrocarbon
 - ➢ TG Flue-gas temperature
 - ➢ TA Ambient temperature
- Calculation of following parameters according ASME-equations
 - ➢ Losses/qA
 - Excess Air/Lambda
 - \succ CO₂ Carbon Dioxide
 - ➢ NO_x Nitrogen Oxides
- 23 Fuels are programmed 4 fuels are programmable
- USB & RS232 interface for real-time uploading of measurements to PC
- Memory for measurements
- ✤ Automatic zero calibration
- ✤ Integrated self-check program

Simultaneous display of eight parameters on the illuminated display

- Standard deviation and average value calculation
- Printer with programmable print out cycles
- ✤ Unit selection:
 ppm mg mg (ref O₂) mg/kWh
- ✤ Gas sampling probe E: length 250mm (0.8ft.), hose 2.5m (8ft.)
- Standard probe useable in temperatures up to 2192°F / 1200°C
- Rechargeable battery with integrated charger
- ✤ 12V DC power jack
- ✤ Selectable power supply 120V or 230V

OPTIONAL FEATURES

- ✤ Gas sampling probes with different lengths
- High temperature probe usable in temperatures up to 2912°F / 1600°C
- Soot measurement
- Draft measurement Optional: Differential draft & Velocity measured in m/s
- ✤ HCl, N₂O, CL₂, H₂, NH₃, or H₂S measurement
- ✤ CO₂ measured (NDIR sensor)

IMR 2800-P





IMR 2800P Basic

Parameter	Principle	Resolution	Range
O ₂ – Oxygen	Electro-Chemical	0.01 % vol.	0-20.95% vol.
CO – Carbon Monoxide	Electro-Chemical	1 ppm	0-2000/4000ppm
NO – Nitric Oxide	Electro-Chemical	1 ppm	0-2000 ppm
SO ₂ – Sulfur Dioxide	Electro-Chemical	1 ppm	0-4000 ppm
NO ₂ – Nitrogen Dioxide	Electro-Chemical	1 ppm	0-100 ppm
HC/CH ₄ – Hydrocarbon	Pellistor	0.01 % vol.	0-100 % lel
TA – Temperature Gas	NiCr-Ni Thermocouple	1°C / 1°F	-20-1200°C
			0-2192°F
TA - Temperature Ambient	Semiconductor	1°C / 1°F	-4-120°C
			0-248°F
CO ₂ – Carbon Dioxide	Calculated	0.1 % vol.	$0-CO_2$ max
NO _x – Nitrogen Oxides	Calculated	1 ppm	0-NO _x max
Heat Losses/qA	Calculated	1 %	0.0-99.9 %
Excess Air/Lambda	Calculated	1 %	1.0-9.0 %
USB	Upload to PC in real-time		
Optional Possible Sensors			
CO ₂ – Carbon Dioxide	NDIR	0.01 % vol.	0-20% vol.
CL ₂ – Chlorine	Electro-Chemical	1 ppm	0-5000 ppm
H ₂ – Hydrogen	Electro-Chemical	1 ppm	0-10000 ppm
H ₂ S – Hydrogen Sulfide	Electro-Chemical	1 ppm	0-200 ppm
HC/CH ₄ – Hydrocarbon	NDIR	0.01 % vol.	0-100 % lel
HC/CH ₄ – Hydrocarbon	NDIR	1 ppm	0-10000ppm
HCl – Hydrogen Chloride	Electro-Chemical	1 ppm	0-4000 ppm
N ₂ O – Nitrous Oxide	NDIR	0.01 % vol.	0-1% vol
NH ₃ – Ammonia	Electro-Chemical	1 ppm	0-1000/5000 ppm

Optional Possible Features

Soot Measurement	Filter Paper Method		
Draft	Solid State	0.01 hPa	0-40 hPa
Velocity with Pitot tube	Solid State	0.01 m/s	0-80m/s

Other measurement ranges are available upon request Tolerance ± 2% Equipped with 8 sensors max

3632 Central Ave. St. Petersburg, FL 33711 www.imrusa.com info@imrusa.com



Model Selection		
	O2, CO, CO2, NO, SO2, NO2,	Soot Measurement, Soot Gas
	HC/LEL, Flue Temp., Ambient	Probe, Soot Filter & Comparison
	Temp., Losses, Excess Air, USB,	Scale, Draft
	Memory, 12V DC charging	
	Item #	Item #
IMR 2800P (Basic)	28000-6	28000-6-S

Customized sensor configuration available on request.

Different gas probe lengths available: Select from 250mm, 750mm*, 1500mm* *additional cost

ASM	Metric
Dimensions: 15"x6.5"x12.4"	Dimensions: 375x165x300mm
Weight: 17lb	Weight: 8kg

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





Dealer: