Environmental Equipment, Inc.

1400CP

COMBUSTION GAS ANALYZER
IMR 1400 SERIES – PRINTER

IMR 1400 – PRINTER

IMR 1400-CP

- 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
  - O_2 Oxygen
  - CO Carbon Monoxide
  - TG Flue-gas temperature
- Calculation of following parameters according ASME-equations
  - Combustion efficiency
  - Losses
  - Excess Air
  - CO_2 Carbon Dioxide
- 7 Fuels are programmed – 5 fuels are programmable
- Automatic zero calibration
- Integrated self-check program
- Simultaneous display of eight parameters on the illuminated display
- Printer with programmable print out cycles
- Unit selection:
  ppm - mg - mg (ref O_2) – mg/kWh
- Gas sampling probe E: – length 250mm (0.8ft.), hose 2.5m (8ft.)
- Probe useable in temperatures up to 2192°F / 1200°C
- Rechargeable battery with integrated charger
- Selectable power supply 120V or 230V

OPTIONAL FEATURES

- Gas sampling probes with different lengths
- Electronic controlled soot measurement
- Draft measurement
- NO-measurement
- SO_2-measurement
- NO_2-measurement
- H_2S-measurement
- HC/CH4-measurement
- CO_2-measured (NDIR sensor)
- CO-bypass valve with purging pump
- 12V DC power jack
- USB interface for real-time uploading of measurements to PC
  - Memory for 200 measurements

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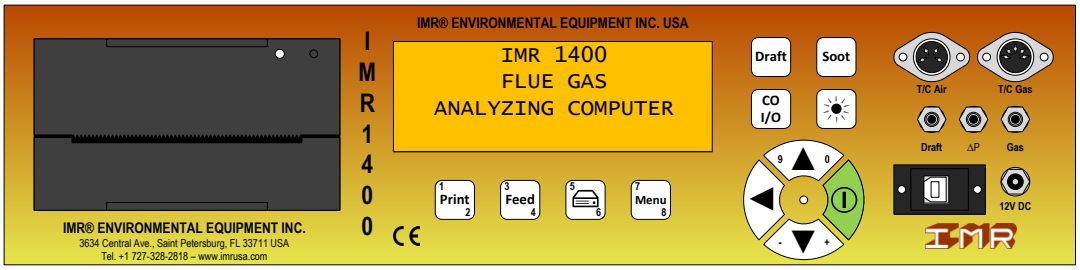

IMR 1400CP Basic

Parameter	Principle	Resolution	Range
O_2 – Oxygen	Electro-Chemical	0.1 % vol.	0-20-9% vol.
CO – Carbon Monoxide	Electro-Chemical	1 ppm	0-2000/4000ppm
CO_2 – Carbon Dioxide	Calculated	0.1 % vol.	0-CO_2 max
TG – Temperature Gas	NiCr-Ni Thermocouple	1°C / 1°F	-20-1200°C 0-2192°F
Combustion Efficiency	Calculated	1 %	0-100 %
Heat Losses	Calculated	1 %	0.0-99.9 %
Excess Air	Calculated	1 %	1.0-9.0 %

Optional Possible Sensors

SO_2	Electro-Chemical	1 ppm	0-4000 ppm
NO	Electro-Chemical	1 ppm	0-2000 ppm
NO_2	Electro-Chemical	1 ppm	0-100 ppm
H_2S	Electro-Chemical	1 ppm	0-200 ppm
HC/CH_4	Pellistor	0.1 % vol.	0-100 % lel
CO_2	NDIR	0.1 % vol.	0-20% vol.

Optional Possible Features

Soot Measurement	Filter Paper Method		
Draft	Solid State	hPa	0-40 hPa
12V DC Charging			
USB	Upload to PC in real-time		
Memory	200 Measurements		

Other measurement ranges are available upon request
Tolerance ± 2%
Equipped with 4 sensors max

IMR 1400 Series - Printer

Model Selection

	O2, CO, CO2, Flue Temp., Efficiency, Losses, Excess Air	Soot Measurement, Soot Gas Probe, Soot Filter & Comparison Scale, Draft, 12V DC charging, USB, Memory
	Item #	Item #
IMR 1400CP (Basic)	14100	14100-S
IMR 1400CP + NO	14190-NO	14190-NO-S
IMR 1400CP + NO_2	14192	14192-S
IMR 1400CP + SO_2	14191-SO2	14191-SO2-S
IMR 1400CP + H_2S	14193	14193-S
IMR 1400CP + HC	14194	14194-S
IMR 1400CP + NO & SO_2	14195-NO/SO2	14195-NO/SO2-S

Customized sensor configuration available on request.

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

ASM	Metric
Dimensions: 16.7”x11.4”x7.3”	Dimensions: 425x290x185mm
Weight: 13lb	Weight: 5.8kg

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

Optional Equipment

RPM Meter
Tachometer: 180-10,000 RPM
DC: 200mV to 1000V
AC: 200V to 750V

Pitot Tube
Measure flow in m/s

Soot Meter
Measures precise soot number from 0.0 to 9.9
More accurate than a paper scale

IMR Data Software
Upload stored measurements or upload data in real time

Dealer:

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