



Environmental Equipment, Inc.

3634 Central Ave. · St. Petersburg, Florida 33711 · Phone 727-328-2818 · 800-RING-IMR · FAX 727/328-2826 · E-mail: IMRUSA@GTE.net
www.imrusa.com



COMBUSTION GAS ANALYZER IMR 1400 – compact (NO/SO2) Series

IMR 1400 – compact (NO/SO2) Standard NO-sensor and SO2-sensor

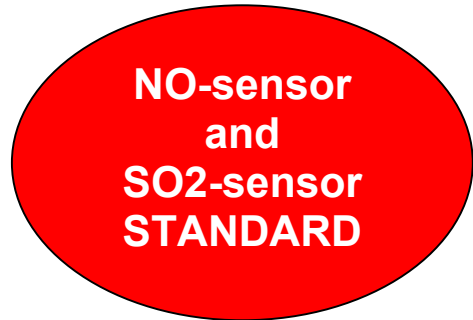
- has been designed to measure flue gases on
 - Boilers
 - Burners
 - Engines
 - Turbines
 - Cars
 - Trucks
- has been developed to meet the customers need
- is a high quality combustion gas analyzer using the latest sensor technology
- is easy to use and will measure all the important parameters to adjust or optimize the combustion process

IMR 1400-c - compact (NO)



STANDARD FEATURES

- Portable and very compact combustion gas analyzer housed in a rugged aluminum case
- Simultaneous measurement of
 - O₂ Oxygen
 - CO Carbon Monoxide
 - NO Nitric oxide**
 - SO₂ Sulfur dioxide**
 - TG Flue-gas temperature
- Calculation of following parameters according ASME-equations
 - Combustion efficiency
 - Losses
 - Excess Air
 - CO₂ 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
- Unit selection : ppm - mg - mg(ref O₂) – mg/kWh
- Gas sampling probe E – length 0.8 ft , hose 8 ft
- Rechargeable battery with charger
- Power supply 110V or 230V



OPTIONAL FEATURES

- ◆ Ambient air temperature probe
- ◆ Gas sampling probe with heated handle
- ◆ Gas sampling probes with different lengths
- ◆ Electronic controlled soot measurement
- ◆ Draft measurement
- ◆ NO₂-measurement
- ◆ HC-measurement
- ◆ CO-bypass valve with purging pump
- ◆ RS 232 interface
- ◆ Memory for 200 measurements
- ◆ 12V DC power jack

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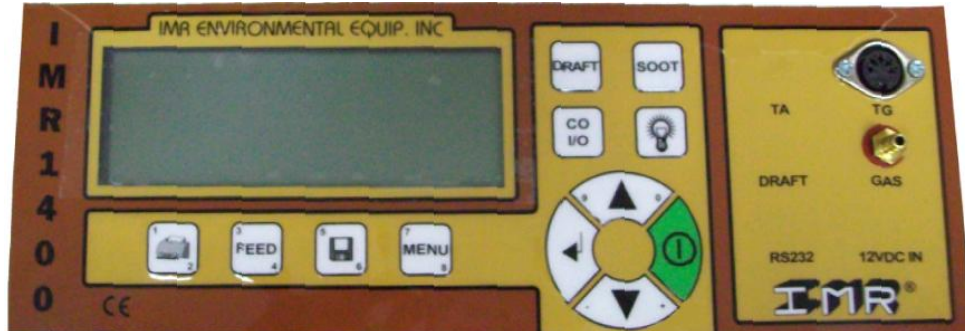


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**NEW
AND
IMPROVED**

IMR 1400-c - compact (NO)



PARAMETER	PRINCIPLE	RESOLUTION	ACCURACY	RANGE	STANDARD 14090/14190
O ₂ 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	✓
NO ₂ Nitric dioxide	Electro-chemical cell	1 ppm	5 %	0- 100 ppm	
SO ₂ Sulfur dioxide	Electro-chemical cell	1 ppm	5 %	0-4000 ppm	14095/14195
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	
CO ₂ 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

MODEL	PART-NO.
IMR 1400-c – compact (NO) Dimensions (inch): 12 x 9 x 4.6 Weight: 6.7 lb. (2.9kg)	IMR 14090
IMR 1400-c – compact (NO&SO ₂) Dimensions (inch): 12 x 9 x 4.6 Weight: 6.7 lb. (2.9kg)	IMR 14095
IMR 1400-c/p – compact – printer (NO) Dimensions (inch): 16.7 x 7.3 x 11.4 Weight: 13 lb. (5.8kg)	IMR 14190
IMR 1400-c/p – compact – printer (NO&SO ₂) Dimensions (inch): 16.7 x 7.3 x 11.4 Weight: 13 lb. (5.8kg)	IMR 14195

Represented by:

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

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