

## COMBUSTION GAS ANALYZER IMR 1400 series – compact

### IMR 1400 – compact

- has been designed to measure flue gases on
  - Boilers
  - Burners
  - Engines
- 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 measures all the important parameters to adjust and optimize the combustion process

IMR 1400 - c



### STANDARD FEATURES

- Portable and very compact combustion gas analyzer housed in a rugged aluminum case
- Simultaneous measurement of
  - O<sub>2</sub>      Oxygen
  - CO      Carbon Monoxide
  - TG      Flue-gas temperature
- Calculation of following parameters according ASME-equations
  - Combustion efficiency
  - Losses
  - Excess Air
  - CO<sub>2</sub>      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 O<sub>2</sub>) – 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
- ◆ NO-measurement
- ◆ SO<sub>2</sub>-measurement
- ◆ NO<sub>2</sub>-measurement
- ◆ CO<sub>2</sub>-measured (NDIR sensor)
- ◆ HC-measurement
- ◆ CO-bypass valve with purging pump
- ◆ RS 232 interface
- ◆ Memory for 200 measurements
- ◆ 12V DC power jack
- ◆ Printer (1400 C/P)



## Environmental Equipment, Inc.

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IMR 1400 - c



PARAMETER	PRINCIPLE	RESOLUTION	ACCURACY	RANGE	STANDARD
<b>O<sub>2</sub> Oxygen</b>	Electro-chemical cell	0.1 Vol.%	± 0.2 %	0-20.9Vol. %	✓
<b>CO Carbon monoxide</b>	Electro-chemical cell	1 ppm	5 %	0-2000/4000ppm	✓
<b>CO<sub>p</sub> CO pure</b>	Calculation	1 ppm	5 %		✓
<b>NO Nitric oxide</b>	Electro-chemical cell	1 ppm	5 %	0-2000 ppm	
<b>NO<sub>2</sub> Nitric dioxide</b>	Electro-chemical cell	1 ppm	5 %	0- 100 ppm	
<b>SO<sub>2</sub> Sulfur dioxide</b>	Electro-chemical cell	1 ppm	5 %	0-4000 ppm	
<b>HC Hydrocarbons</b>	Sensor	0.1%	5 %	0-100% LEL	
<b>TG Flue gas temperature</b>	NiCr-Ni thermocouple	1 K	± 2 %	-4°F / 2192°F	✓
<b>TA Air temperature</b>	Semiconductor	1 K	± 0.5 K	-4°F / 248°F	
<b>P Draft</b>	Solid state	0.004" H <sub>2</sub> O	± 2 %	- 12" / 20" H <sub>2</sub> O	
<b>CO<sub>2</sub> Carbon dioxide**</b>	Calculation	0.1 Vol.%	± 0.2 %	0- CO <sub>2</sub> max	✓
<b>Efficiency</b>	Calculation	1 %	± 0.5 %	0-999 %	✓
<b>Losses</b>	Calculation	1 %	± 0.5 %	0-999 %	✓
<b>Excess Air</b>	Calculation	1 %	± 2 %	0-999 %	✓
<b>Soot</b>	Filter paper method				

Other measurement ranges are available upon request

Equipped with max 4 sensors

\*\*Optional: measured by CO<sub>2</sub> NDIR sensor

### MODEL

IMR 1400 - c

Dimensions (inch): 12 x 9 x 4.6

Weight: 6.7 lb. (2.9kg)

### PART-NO.

IMR 14000

IMR 1400 - c/p (printer)

Dimensions (inch): 16.7 x 7.3 x 11.4

Weight: 13 lb. (5.8kg)

IMR 14100

IMR 1400 -c/p (printer)



Represented by:

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

THE PRIDE OF THE COMPANY - MADE IN USA -