IMR®
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

NEW

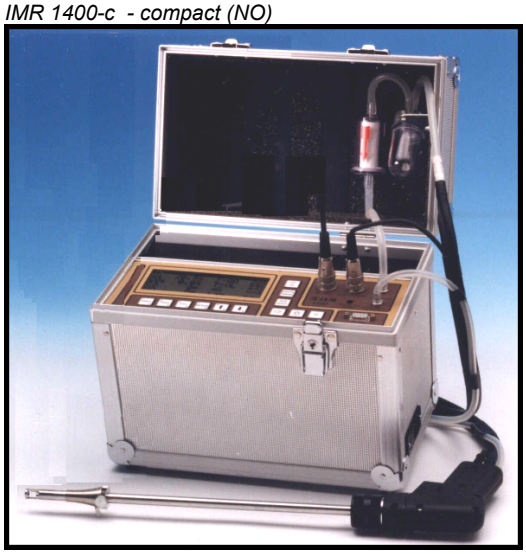
# COMBUSTION GAS ANALYZER
# IMR 1400 – compact (NO) Series

## IMR 1400 – compact (NO)

Standard NO-sensor

- has been designed to measure flue gases on
  - ☐ Boilers ☐ Turbines
  - ☐ Burners ☐ Cars
  - ☐ Engines ☐ 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
  - $O_2$ Oxygen
  - CO Carbon Monoxide
  - **NO** **Nitric oxide**
  - 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
- Unit selection : ppm - mg - mg(ref $O_2$) – mg/kWh
- Gas sampling probe E – length 0.8 ft , hose 8 ft
- Rechargeable battery with charger
- Power supply 110V or 230V

**NOW NO-sensor STANDARD**

## OPTIONAL FEATURES

- Ambient air temperature probe
- Gas sampling probe with heated handle
- Gas sampling probes with different lengths
- Electronic controlled soot measurement
- Draft measurement
- $SO_2$-measurement
- $NO_2$-measurement
- HC-measurement
- CO-bypass valve with purging pump
- RS 232 interface
- Memory for 200 measurements
- 12V DC power jack

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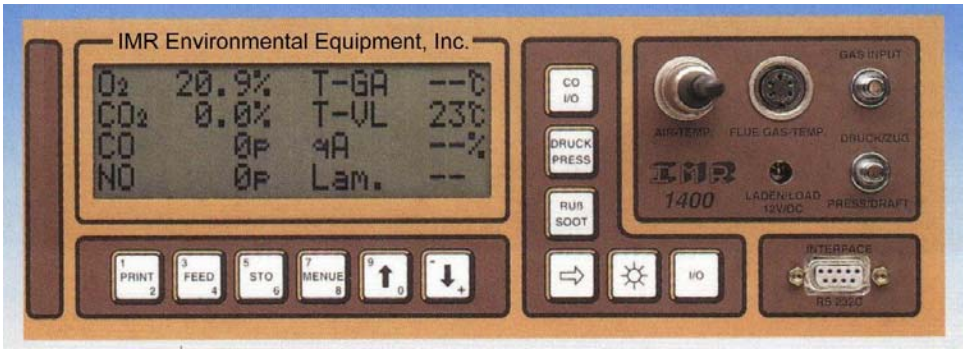
**NEW**

**AND**

**IMPROVED**

*IMR 1400-c - compact (NO)*



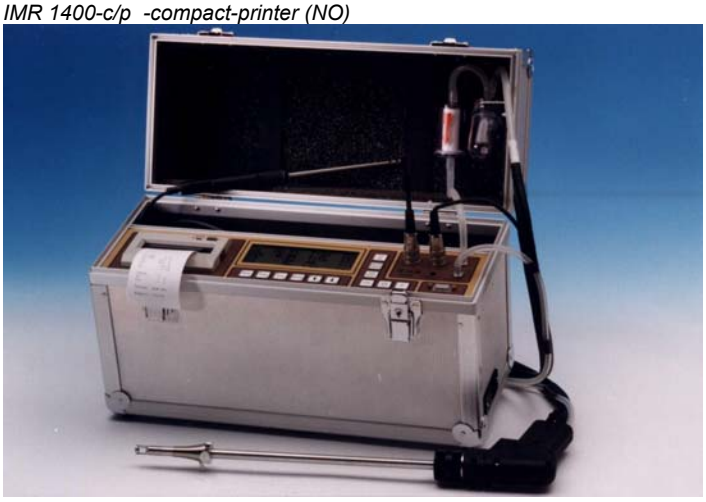

| PARAMETER | PRINCIPLE | RESOLUTION | ACCURACY | RANGE | STANDARD |
|---|---|---|---|---|---|
| ***$O_2$ Oxygen*** | Electro-chemical cell | 0.1 Vol.% | ± 0.2 % | 0-20.9Vol. % | ✓ |
| ***CO Carbon monoxide*** | Electro-chemical cell | 1 ppm | 5 % | 0-2000/4000ppm | ✓ |
| ***COp CO pure*** | Calculation | 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 | |
| ***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" $H_2O$ | ± 2 % | - 12" / 20" $H_2O$ | |
| ***$CO_2$ Carbon dioxide*** | Calculation | 0.1 Vol.% | ± 0.2 % | 0- $CO_2$ max | ✓ |
| ***Efficiency*** | Calculation | 1 % | ± 0.5 % | 0-999 % | ✓ |
| ***Losses*** | Calculation | 1 % | ± 0.5 % | 0-999 % | ✓ |
| ***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)<br>Dimensions (inch): 12 x 9 x 4.6<br>Weight: 6.7 lb. (2.9kg) | IMR 14090 |
| IMR 1400-c/p – compact – printer (NO)<br>Dimensions (inch): 16.7 x 7.3 x 11.4<br>Weight: 13 lb. (5.8kg) | IMR 14190 |

*IMR 1400-c/p -compact-printer (NO)*



Represented by: