Environmental Equipment, Inc.
3634 Central Ave. · St. Petersburg, Florida 33711 · Phone 727-328-2818 · 800-RING-IMR · FAX 727/328-2826 · **E-mail**: info@imrusa.com
www.imrusa.com

COMBUSTION GAS ANALYZER
IMR 1400 CO

IMR 1400 CO

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The combustion gas analyzer IMR 1400 CO is easy to use, compact and rugged.
Two CO-sensors are installed, one for low CO-measurements and one for high CO-measurements. This helps to get the best possible accuracy for different applications (e.g. wood fired applications).

Measured parameters:
- Oxygen O2
- Carbon monoxide CO in ppm
- Carbon monoxide CO in Vol. %

Calculated parameters:
- Losses qA
- Combustion Efficiency ETA
- Excess Air LAMBDA
- Carbon dioxide CO2

The series IMR 1400 CO can also measure draft, soot and stack gas temperature and ambient temperature.

IMR 1400CO – Overview

- *Case:*
  Rugged aluminum with an additional compartment
- *Sensors:*
  O2-CO-CO
- *Display:*
  Illuminated and simultaneous display of 8 values
- *Fuels:*
  7 programmed; 5 programmable
- *Units:*
  ppm, mg, mg(O2), mg/kWh
- *Interface:*
  RS232
- *Memory:*
  200 measurements
- *Battery*:
  Status is shown on the LCD;
  6 hrs
- *Printer:*
  Highspeed thermal-printer;
  Width 58mm;
  Capable of printing 1, 2 or 3 printouts at once with all values including date, time and fuel type
- *CO-Switch:*
  Solenoid valve to automatically switch between the low and high CO-sensor.
  2nd pump to purge the low CO-sensor (faster regeneration);
- *Soot measurement:*
  Electronic controlled pump
- *Zero-point adjustment:*
  3 min
- *Serviceprogram:*
  Component check and printout capability of all parameters;
  Monitoring working hours
- *Gas sampling probe:*
  Heated handle (soot);
  l=270mm; ∅ 10mm;
  Thermocouple Type K;
  Hose length 3.5m
- *Ambient temperature probe:*
  l=150mm;
  Line 3.5m
- *Condensation trap:*
  Integrated Filter
- *Power:*
  12VDC;
  240VAC/50Hz;
  120VAC/60Hz
- *Operating temperature*:
  10°C..40°C
- *Storage temperature*:
  -20°C..50°C

THE PRIDE OF THE COMPANY - MADE IN USA -

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TECHNICAL DATA

PARAMETER		PRINCIPLE	RES.	ACC.	RANGE	IMR 1400CO
O_2	*Oxygen*	Electro-chemical	0.1 Vol.%	± 0.2 %	0-20.9Vol. %	✓
CO	*Carbon monoxide*	Electro-chemical	1 ppm	Z	0-2000 ppm	✓
CO	*Carbon monoxide*	Electro-chemical	0.001 Vol.%	Z	0-4.000 Vol.%	✓
NO	*Nitric oxide*	Electro-chemical	1 ppm	Z	0- 2000 ppm	optional
SO_2	*Sulfur dioxide*	Electro-chemical	1 ppm	Z	0- 4000 ppm	optional
TG	*Stack gas temperature*	Thermocouple K	1 K	± 2 %	-20°C / 1200°C	✓
VL	*Ambient temperature*	Semiconductor	1 K	± 0.5 K	-20°C / 120°C	✓
P	*Draft*	Solid state	0.01 hPa	± 2 %	-30hPa / +50hPa	✓
CO_2	*Carbon dioxide*	Calculation	0.1 Vol.%	± 0.2 %	0- CO_2 max	✓
ETA	*Efficiency*	Calculation	0.1 %	± 0.5 %	0-99.9 %	✓
qA	*Losses*	Calculation	0.1 %	± 0.5 %	0-99.9 %	✓
λ	*Excess Air*	Calculation	0.01	± 2 %	1-9.99	✓
	Soot	Filter paper				✓

Other measuring ranges upon request *Max. 4 sensors*

Z = 0-20% of the measuring range ± 1% of the maximum value
= 21-100% of the measuring range ± 5% of the displayed value

STANDARD

Combustion gas analyzer Dimensions in mm: 425 x 185 x 290 Weight in kg: 5.8
High speed thermal printer
Gas sampling probe S with heated handle
Ambient temperature probe
Condensation trap with integrated filter
Soot paper, soot scale
Power cord
Manual
Calibration certificate

Model	Sensors	Part-No.
IMR 1400CO	O2, CO, CO	14291

Distributor:

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

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