

COMBUSTION GAS ANALYZER IMR 1000

IMR 1000

The IMR1000 is a hand held pocket size stack gas analyzer for combustion tests on boilers, burners, etc. The IMR 1000-1/-2 have up to two sensors with a 2-line LCD while the IMR1000-3/-4 have a 4-line LCD and come with up to 3 sensors.

- Up to 3 sensors
- Small and rugged
- Easy to operate
- Light weight
- Memory
- Infrared Interface for printer
- Protective boot with integral magnet
- Large backlit display
- Reliable Technology
- Easy to service
- Displayed parameter can be chosen

Measured parameters:

- Oxygen O2
- Carbon Monoxide CO
- Carbon Monoxide CO (ambient)
- Nitric Oxide NO
- Flue-Gas Temperature

IMR1000-1/2



IMR1000-3/4



Calculated values:

- Combustion Efficiency
- Excess Air
- Carbon Dioxide
- CO corrected to 0% O2

STANDARD

☑ Enclosure:

Rugged plastic case with protective boot and magnet

✓ Fuels:

Natural Gas, Propane, Butane, LPG, Light Oil

Measuring units: ppm, mg/m3

✓ Service program: Check of all values Zero point calibration:
Max. 60 seconds

☑ Battery:

> 8 hrs

☑ Languages:

English, German, French, etc.

✓ Condensation trap: Integrated filter

✓ Operating Conditions
32-104°F / 0-40°C;
10-90% rel. humidity, non-

condensing

✓ Gas sampling probe:
Thermocouple Type K;

Ø 0.25"/ 6mm;

Length 9"/220mm;

Hose 9'/3m

✓ Power Supply:

4 x AA

✓ Weight 2.2lbs / 1kg

☑ *Dimensions* 7.9x1.8x3.5" / 200x45x90mm

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IMR1000 Specifications

Features	IMR1000-1/2	IMR1000-3	IMR1000-4
Worklight		~	V
Low battery indicator		~	V
Individual print-out reports		✓	V
Rotary selector	✓	~	V
Memory positions (various tests)	20	179	179
Infrared printer port	V	~	~
Backlit display	2 Lines	4 Lines	4 Lines
Boot with integral magnet	V	~	V
User programmable headers	V	~	V
Time & date stamp	V	~	V
1 yr warranty	V	V	V

Temp Measurement			
Flue Temp Range (T1 IMR1000-3/4)	32 ~ 1112°F / 0 ~ 600°C	20 ~ 2400°F / -29 ~ 1315°	
Inlet Temp Range (T2 IMR1000-3/4)	ı		
Inlet Temp Range (Ambient)	32 ~ 1112°F / 0 ~ 600°C	32 ~ 112°F / 0 ~ 50°C	
Net Temp (∆T)**	32 ~ 112°F / 0 ~ 50°C	20 ~ 2400°F / -29 ~ 1315°C	
Resolution	1°F/°C	0.1°F/°C	
Flue (T1, Inlet T2, & Net ΔT) Accuracy	±[0.3% rdg +5°F(3°C)]	±[0.3% rdg +3.6°F(2°C)]	
Inlet Temp Ambient Accuracy	±[0.3% rdg +1°F(1°C)]	±[0.3% rdg +1.8°F(1°C)]	

Gas Measurement			
Oxygen	0 ~ 21%	0 ~ 21%	0 ~ 21%
02 Resolution/Accuracy	0.1% / ±0.2%*	0.1% / ±0.2%*	0.1% / ±0.2%*
Carbon Monoxide (IMR1000-2/3/4)	$0 \sim 1000 \text{ ppm}$	0 ~ 4000 ppm	$0 \sim 4000 \text{ ppm}$
CO Resolution/Accuracy	1 ppm/±10 ppm < 100 ppm*	1 ppm/±10 ppm < 100 ppm*	1 ppm/±10 ppm < 100 ppm*
(IMR1000-2/3/4 Only)	±5% reading	±5% reading	±5% reading
Carbon Dioxide**	0 ~ 30%	0 ~ 30%	0 ~ 30%
CO2 Resolution/Accuracy	1.0%/±0.3% reading	1.0%/±0.3% reading	1.0%/±0.3% reading
Efficiency**	0 ~ 99.9%	0 ~ 99.9%	0 ~ 99.9%
Efficiency Resolution/Accuracy	0.1%/±1.0% reading	0.1%/±1.0% reading	0.1%/±1.0% reading
Excess Air**	0 ~ 250%	0 ~ 250%	0 ~ 250%
Excess Air Resolution/Accuracy	0.1%/±0.2% reading	0.1%/±0.2% reading	0.1%/±0.2% reading
CO/CO2**	-	0 ~ 0.999%	0 ~ 0.999%
CO/CO2 Resolution/Accuracy	-	0.0001%/±5% reading	0.0001%/±5% reading
Nitric Oxide	-	-	1 ppm/±2 ppm < 30 ppm*
Nitric Oxide Resolution/Accuracy	-	-	±5 ppm > 30 ppm

Pressure (Differential)			
	Range ±0.2mBar 0.08"wg	0.001mBar/±0.005mBar ±0.002"wg	0.001mBar/±0.005mBar ±0.002"wg
	Range ±1mBar 0.4"wg	0.001mBar/±0.03mBar ±0.01"wg	0.001mBar/±0.03mBar ±0.01"wg
	Range ±80mBar 32"wg	0.01mBar/±3% reading	0.01mBar/±3% reading

Dimensions	
Weight	2.2lbs. with boot
Handset	7.9 x 1.8 x 3.5"
Probe	11.8 x 0.25 x 9.4" stainless steel shaft, type K thermocouple (9' hose)
Operating temp	0 to 40°C/10% to 90% Relative Humidity non-condensing
Battery	x4 "AA" cells / 12 hour life typical with Alkaline "AA" cells
Warranty	1 year limited warranty

Pre-Programmed Fuels

Natural Gas, Propane, Butane, LPG, Light Oil

*Measures **Calculates

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OPTIONAL

AC adapter with rechargeable batteries
Infrared printer
Soft carrying case
Hard carrying case

1000-1	O2, condensation trap, gas sampling probe, batteries, manual
1000-2	O2, CO, condensation trap, gas sampling probe, batteries, manual
1000-3	O2, CO, draft, condensation trap, gas sampling probe, batteries, manual
1000-4	O2, CO, NO, draft, condensation trap, gas sampling probe, batteries, manual