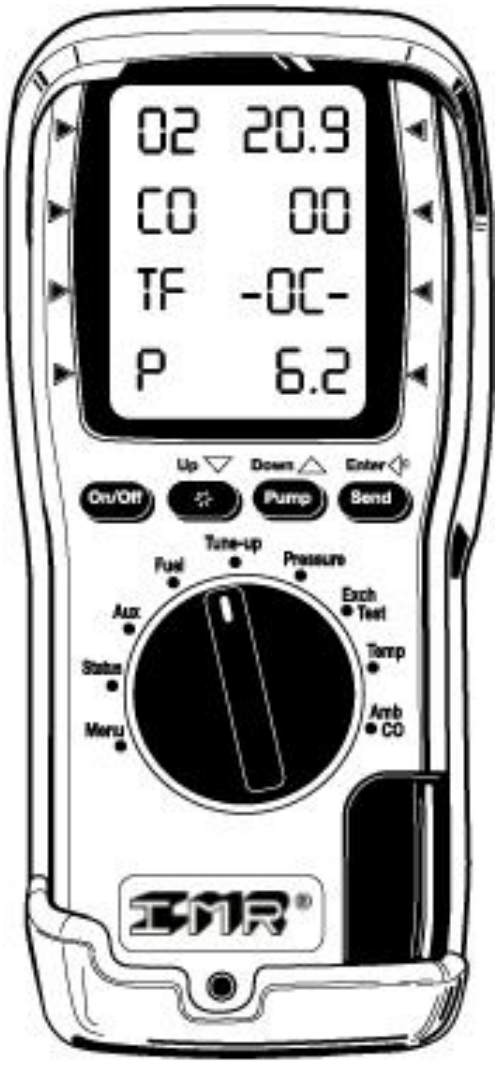
Environmental Equipment, Inc.

Combustion Gas Analyzer IMR 1050X & IMR 1050X-NO

The IMR 1050X series enables HVAC professionals to accurately test and service all residential combustion appliances. Confirm set up parameters (to manufacturers' specifications). Verify proper combustion, equipment efficiency and integrity. Analyze combustion gas makeup and stack gases. Set gas pressures. Measure temperatures for live fire of gases, temperature rise and differential drops across coils, inlet and superheat readings. Perform pressure test for drops across coils, gas pressures, limit switches, building pressures and zone pressures. Document equipment performance before and after servicing tests to show compliance



- ✓ Work light
- ✓ 4 line backlit LCD display
- ✓ 179 memory positions
- ✓ User customizable parameters view
- ✓ Individual report printouts
- ✓ Unique DMM style rotary selector
- ✓ Protective boot w/integral magnet
- ✓ Real time clock
- ✓ CO readings to 1 ppm
- ✓ Infrared printer port

Measures:

- ➢ Differential Flue Temperature
- ➢ CO2
- ➢ CO (Flue/Ambient)
- ➢ Differential Pressure
- ➢ NO (1050X-NO)

Calculates:

- ➢ O2
- ➢ CO air free
- ➢ Efficiency
- ➢ Excess air
- ➢ NOx (1050X-NO)

Included Accessories:

- ➢ Combustion Analyzer
- ➢ Flue Probe
- ➢ Hard carrying case
- ➢ Owner's manual

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Parameter	Resolution	Accuracy	Range
Temperature			
Flue Temperature	1.0 ˚F/˚C	±(0.3% rdg +3.6°F(2°C))	20~2400°F (-29~1315°C)
Inlet Temperature (probe - T2)	1.0 ˚F/˚C	±(0.3% rdg +3.6°F(2°C))	20~2400°F (-29~1315°C)
Inlet Temperature (ambient)	1.0 ˚F/˚C	±(0.3% rdg +1.8°F(1°C))	32~122°F (0~50°C)
Net Temperature (ΔT)[*2]	1.0 ˚F/˚C	±(0.3% rdg +3.6°F(2°C))	20~2400°F (-29~1315°C)
Gas Measurement			
Oxygen	0.1%	±(0.3% absolute)	0~21%[*2]
Carbon Monoxide (CO)[*1]	1 ppm	±10 ppm<100ppm, ±5% rdg>100ppm	0~2000 ppm (4000 max 15 min)
Carbon Dioxide (CO2)[*1]	0.1%	(0.3% absolute)	0~20%
Efficiency[*2]	0.1%	±3%	0~99.9%
Excess Air[*2]	0.1%	±3%	0~250%
CO/CO2 ratio[*2]	0.001	± 5% rdg	0~0.999
Nitric Oxide (NO1)[*3]	±2 ppm <30ppm	±5ppm <100ppm	0~100 ppm
Pressure	0.001” wc < 9.999” wc 0.01” wc >10.00” wc 0.001mBar<24.999mBar 0.01mBar > 25 mBar	2±0.002” wc (±0.005mBar)	±0.08” wc (±0.2mBar)
		±0.01” wc (±0.03mBar)	±0.4” wc (±1mBar)
		±3% rdg	±32” wc (±80mBar)
Dimensions			
Weight	2.2lb (1kg)		
Handset	7.9” (200mm) x 3.5” (90mm) x 1.8” (45mm)		
Probe	(L) 11.8” (300mm) x (D) 0.25” (6mm) with 7.8” (200mm) 6ft (3m) neoprene hose		
Ambient Operating Range	32°F to 104°F (0°C to 40°C) at 10 - 90% R.H		
Battery Life	Standard “AA” (x4) >8 hours continuous use		
Accessories			
AC adapter (optional) [Rechargeable batteries included]	Input: 110V AC nominal Output: 9V DC regulated 500mA minimum		
Infrared Printer	Battery powered w/magnetic boot		
Soft Carrying Case	Shoulder strap, adjustable interior		
Hard Carrying Case	Carrying handle, form fitted interior compartment, compartment in lid		

[*1] Using dry gases at standard temperature and pressure (STP) [*2] Calculated [*3]IMR1050X-NO only

Represented by:

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