IMR 1050X

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The newly redesigned IMR 1050X Combustion System Analyzer eliminates the number one hassle for combustion contractors; the annual replacement and calibration of the O_2 sensor. By replacing the electro chemical O_2 sensor with the EOS Technology™ CO_2 sensor, the IMR 1050X now **takes direct CO_2 measurements** and calculates the O2 level. This lowers the cost of ownership by doing away with the annual replacements of the O_2 sensor and reducing calibration drifting typically found with standard electro-chemical sensors. The EOS Technology sensor has an unmatched industry-leading **life expectancy of 10 years!**

Features

- Measures: Differential flue temperature, Carbon Dioxide (CO_2), flue & ambient carbon monoxide (CO) & Differential Pressure
- Calculates: oxygen, gross/net efficiency, excess air, & CO air free
- Worklight
- 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, Calculates** or Displays:

- Oxygen (O_2)**
- Carbon Monoxide (CO)
- Carbon Dioxide (CO_2)
- Combustion efficiency**
- Pressure (draft)
- Date & time

- Temperature (flue, inlet & net**)
- Excess air**
- CO Air Free**
- Battery level
- Fuel type
- Nitric Oxide (IMR 1050X-NO)

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IMR 1050X Specifications

Temperature Measurement	1050X	1050X-NO
Flue Temp Range	20~2400°F (-29~1315°C)	
Inlet Temperature (probe - T2) Inlet	20~2400°F (-29~1315°C)	
Temperature (ambient)	32~112°F (0~50°C)	
Net Temperature (_T)**	20~2400°F (-29~1315°C)	
Resolution	0.1°C/F	
Flue (T1, Inlet T2 & _T) Accuracy	±(0.3% rdg +3.6°F(2°C))	
Inlet Temperature Accuracy	±(0.3% rdg +1.8°F(1°C))	
Gas Measurement		
Oxygen	0~21%**	0~21%**
O_2 resolution / accuracy	0.1% / ±0.3%	0.1% / ±0.3%
Carbon Monoxide (CO)	0~2000 ppm(4000 max 15 min)*	
CO resolution / accuracy	1ppm / ±10ppm < 100ppm ±5% rdg > 100ppm	
Carbon Dioxide (CO2)	0~20%	0~20%
CO_2 Resolution / accuracy	0.1% / ±2%	0.1% / ±2%
Efficiency**	0~99.9%**	0~99.9%**
Efficiency resolution / accuracy	0.1% / ±3%	0.1% / ±3%
Excess Air**	0~250%	0~250%
Excess Air resolution / accuracy	0.1% / ±3%	0.1% / ±3%
CO / CO_2 ratio**	0~0.999	0~0.999
CO / CO_2 resolution / accuracy	0.001 / ±5% rdg	0.001 / ±5% rdg
Nitric Oxide (NO1)	-	0~100 ppm
NO1 resolution / accuracy	-	±5 ppm < 100 ppm
Pressure (Differential)	**Range**	**Accuracy**
	±0.08" wc (±0.2mBar) ±0.4" wc (±1mBar) ±32" wc (±80mBar)	±0.002" wc (±0.005mBar) ±0.01" wc (±0.03mBar) ±3% rdg
Pressure Resolution	0.001" wc < 9.999" wg 0.01" wc < 10.0" wg 0.001 mBar < 24.999 mBar 0.01 mBar > 25 mBar	

* Measured at STP (standard temperature and pressure)
** Calculated value

1050X	O_2, CO_2, CO, draft, Condensation Trap, Flue Probe Particle Filter, Hard Case, Batteries, Quick Start Guide Owner's Manual
1050X-NO	O_2, CO_2, CO, NO, draft, Condensation Trap, Flue Probe, Particle Filter, Hard Case, Batteries, Quick Start Guide Owner's Manual
1050X KIT	1050X Analyzer, Flue Probe, IR Printer, (2) K-Type Temp Probes, (2) Static Pressure Hoses (1) True Draft Probe, Gas Tap and Hose, AC Adapter/Charger, Hard Case, (2) Printer paper rolls, (2) Particle filters, Batteries, Quick Start Guide, & Owner's Manual
1050X-NO KIT	1050X-NO Analyzer Flue Probe, IR Printer, (2) K-Type Temp Probes, (2) Static Pressure Hoses, (1) True Draft Probe, Gas Tap and Hose, AC Adapter/Charger, Hard Case, (2) Printer paper rolls, (2) Particle filters, Batteries, Quick Start Guide, & Owner's Manual

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More Details About IMR 1050X

COMBUSTION

• Verify Ambient CO
• Verity CO Air Free
• Verify Proper Combustion
• Verify Combustion Gas, Make Up 02, CO, CO2, Excess Air
• Verify Stack Loss and Efficiency

Allows for live fire / real time analysis and trouble shooting, while verifying and documenting needed adjustments, repairs or replacements.

**MODULATING & MULTI STAGE SYSTEM
SET UP & TESTING:**

The IMR 1050X allows the technician to simultaneously set gas pressure while doing a combustion test. Which allows for live fire viewing of combustion gases (over / under fire) while viewing and setting gas pressure to manufacture suggested specifications.

USER PROGRAMMABLE AUXILIARY SCREEN:

The auxiliary screen allows the tech to choose from an assortment of HVAC test parameters they want to view while performing various HVAC applications. This screen also allows a variety of test to be done simultaneously.

1050X KIT	1050X-NO KIT

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