

E9000



Portable Emissions Analyzer for Boiler, Engine, Furnace, Kiln, and other Combustion Applications

Built with Quality in Mind

Portable Industrial Flue Gas & Emissions Analyzer

CO₂(NDIR)

NO₂

Up to 9 Total Gas Sensors

CxHy(HC)

NO

Software with Automatic Data Logging

Built-In Thermoelectric Chiller

SO₂

CO

Automatic Condensate Drain

Upgraded Memory (16,000 Tests)

H₂S

O₂

Color Graphic Display

Low NOx

Built-In Printer

CO Dilution Auto-Range

Pre-Calibrated Gas Sensors

High Accuracy NDIR Sensors Including CO₂ Sensor to 50%

True NOx & Low NOx Measurements

Android App to Monitor & Save Data

Heavy Duty Case

Bluetooth®

Heated Probe Head & Sample Hose

US EPA CTM-030 & CTM-034 Compliant

Software Package with Automatic Data Logging



Customize to Meet Your Emissions Monitoring Requirements



E Instruments International

www.E-Inst.com

P: 215-750-1212 A: 402 Middletown Blvd, Suite 216 Langhorne, PA 19047

E9000 Specifications

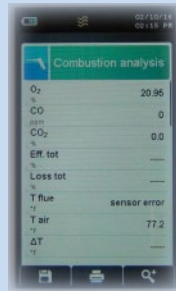


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Display Screen & Keypad

The large multi-color graphic display screen includes a zoom function. The capacitive touch sensing keypad guides the operator through the user friendly menus on the display screen. The measured & calculated parameters on the display screen can be fully customized as the operator requires.



Built-In Printer

The internal printer is included with each E9000 and prints on a special non-fading polymer paper so it can still be easily read even when exposed to water, heat, or light. As with the display screen, the parameters on the print-out can be customized by each operator.

Heated Sample Hose & Probe Head

The E9000 has an optional heated probe head and flexible heated sample line. This feature maintains the sample gas at a temperature higher than the dew point to prevent condensation from occurring before the stack gas reaches the internal thermoelectric chiller. The water vapor condenses very rapidly at the chiller so the gases do not have ample opportunity time to dissolve into the condensate. This sample conditioning system maintains the integrity of the gas composition especially for the most water soluble gases such as NO_2 and SO_2 .

Superior Sample Conditioning for Semi-Continuous Use

Each E9000 includes an internal high efficiency Peltier thermoelectric chiller with a built-in condensate drain pump that automatically pumps the accumulated water out through the bottom of the unit for greater convenience. Along with the optional heated sample hose & probe head, this sample conditioning system allows for longer test periods while maximizing the integrity and composition of the sampled stack gas so the gases measured by the analyzer are representative of the actual stack/flue gases.



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Parameter	Sensor	Range	Res.	Accuracy
O ₂	Electrochemical	0 - 25%	0.1%	±0.1% vol
CO	Electrochemical	0 - 8000 ppm	1 ppm	<200 ppm=±5 ppm up to 2000 ppm=±4% >2000 ppm=±10%
CO Auto Range	Electrochemical	0 - 10.00%	0.01%	±10% rdg.
CO	NDIR	0 - 15.00%	0.01%	±3% rdg.
NO	Electrochemical	0 - 5000 ppm	1 ppm	<125 ppm=±5 ppm up to 5000 ppm=±4%
Low NO	Electrochemical	0 - 100.0 ppm	0.1 ppm	<50.0 ppm=±1.5 ppm up to 100.0 ppm=±4%
NO ₂	Electrochemical	0 - 1000 ppm	1 ppm	<125 ppm=±5 ppm up to 1000 ppm=±4%
Low NO ₂	Electrochemical	0 - 100.0 ppm	0.1 ppm	<50.0 ppm=±1.5 ppm up to 100.0 ppm=±4%
NO _x	Calculated	0 - 5000 ppm	1 ppm	
SO ₂	Electrochemical	0 - 5000 ppm	1 ppm	<125 ppm=±5 ppm up to 5000 ppm=±4%
Low SO ₂	Electrochemical	0 - 100.0 ppm	0.1 ppm	<50.0 ppm=±1.5 ppm up to 100.0 ppm=±4%
CO ₂	Calculated	0 - 99.9%	0.1%	
CO ₂	NDIR	0 - 50.0%	0.1%	<8%=±3% rdg. up to 50%=±5% rdg.
C _x H _y	NDIR	0 - 50,000 ppm	1 ppm	<1000 ppm=±50 ppm up to 50,000 ppm=±2%
C _x H _y	Pellistor	0 - 5.00%	0.01%	±5 % Full Scale
H ₂ S	Electrochemical	0 - 500 ppm	0.1 ppm	<125 ppm=±5 ppm up to 500 ppm=±4%



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E9000



E9000 Ordering Code

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Part # 9000 - Table A - Table B - Table C

Table A - Electrochemical Sensors (Maximum of Six)

- O O₂ Sensor (0 - 25 %)
- C CO Sensor (0 - 8000 ppm) with Dilution Auto-Range up to 10%
- N NO Sensor (0 - 5000 ppm)
- NL Low NO Sensor (0 - 100.0 ppm)
- D NO₂ Sensor (0 - 1000 ppm)
- DL Low NO₂ Sensor (0 - 100.0 ppm)
- S SO₂ Sensor (0 - 5000 ppm)
- SL Low SO₂ Sensor (0 - 100.0 ppm)
- H H₂S Sensor (0 - 500 ppm)

Table B - NDIR (non-dispersive infrared) Sensors

- IR CO₂ Sensor (0 - 50 %), CxHy Sensor (0 - 5 %), and High CO Sensor (0 - 15 %)
- 0 No NDIR sensors

Table C - Sampling Probes and Hoses

- 12 12" (300mm) Probe, 1470°F (800°C) max, with 10' (3m) Dual Hose
- 30 30" (750mm) Probe, 1470°F (800°C) max, with 10' (3m) Dual Hose
- 40 40" (1m) Probe, 2190°F (1200°C) max, with 10' (3m) Hose for High Temperature Combustion Applications
- 60 60" (1.5m) Probe, 2190°F (1200°C) max, with 10' (3m) Hose for High Temperature Combustion Applications
- 12H 12" (300mm) Probe, 1470°F (800°C) max, with 10' (3m) Heated Sample Hose & Probe Head
- 40H 40" (1m) Probe, 2190°F (1200°C) max, with 10' (3m) Heated Sample Hose & Probe Head
- SINT1 Sintered Filter with Half Shield for Probe Tip



Standard E9000 Configuration (E9000-OCN-0-12) Includes:

- O₂, CO, and NO Gas Sensors, Upgradeable to 9 Gas Sensors Total
- Thermoelectric Chiller with Automatic Condensate Drain Pump
- Rechargeable Battery Pack
- 110-240VAC/50-60Hz Battery Charger
- 12"/300mm Probe with 10'/3m Dual Hose
- Stack Gas & Air Temperature Measurements
- Draft & Differential Pressure Measurements
- Calculated Values for Efficiency, Excess Air, & CO₂%
- Internal Memory (16,000 Tests)
- Software Package with USB & Bluetooth Interface
- Wireless Bluetooth Communications
- Heavy Duty Aluminum Carrying Case
- Calibration Certificate
- Operations Manual



Weight: 29 lbs. (13 kg)

Dimensions: 20x14x8" (50x36x20 cm)

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Information & design subject to change at the manufacturer's discretion

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