E5500

E INSTRUMENTS

Portable Industrial Flue Gas & Emissions Analyzer

Providing the latest in Combustion Gas & Emissions Analyzers for Boiler, Engine, Furnace, and other Combustion Applications

- CO Dilution Auto-Range
- Total NOx Measurements
- Up to 5 Total Gas Sensors
- Wireless Remote Printer
- External Water Trap with Filter
- Gas Velocity with Pitot Tube
- Rechargeable Battery
- Internal Memory (1000 Tests)
- Wireless Communications with Computer & Remote Printer
- BlueTooth Module for PC

Bluetooth®

O_2

CO_2

CO

NO

NO_2

NOx

SO_2

Flue Gas & Air Temp.

Draft & Diff. Pressure

Stack Gas Velocity

NEW REAL-TIME Software Package with BlueTooth Wireless & USB

NEW Up to Five Gas Sensors Including Both NO + NO2 for Total NOx

NEW LOW NOx Sensors Available with 0.1 ppm Resolution

Emissions · Indoor Air Quality · Efficiency · Accuracy
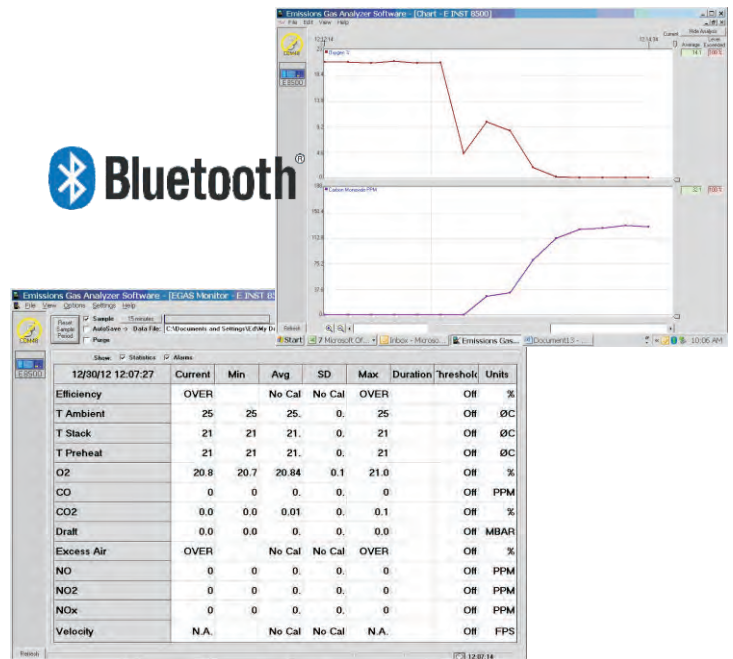
"Built with Quality in Mind"

E5500

Low NOx and Total NOx

The E5500 can be configured with low range NOx gas sensors with 0.1 ppm resolution and greater accuracy for low NOx concentration measurements. Total NOx, with direct actual measurements of both NO and NO_2, is available with the E5500.

Real-Time Software

The standard "EGAS" software package includes the ability to save & graph data in real-time in the field with a laptop or in a laboratory with a PC. Communications between the E5500 and a computer are done via wireless Bluetooth communications or USB cable. A Bluetooth module for a computer comes standard with each E5500 gas analyzer. Data from the "EGAS" software can be exported to other spreadsheet programs for more user flexibility to create detailed emissions reports.

E5500 Specifications

Gas Sensors

The E5500 can have a maximum of five total gas sensors, that are electrochemical type gas sensors. The chart below details each sensor.

Temperature Measurements

Temperature measurements for the flue gas and air as well as the differential temperature are standard features. The differential temperature is used as part of the efficiency calculation.

Draft, Pressure, & Velocity

An internal pressure sensor allows the analyzer to measure pressure and stack draft. With two pressure inputs, a differential pressure can also be measured. Gas velocity can be measured using the differential pressure and an optional Pitot tube.

Parameter	Sensor	Range	Res.	Accuracy
O_2	Electrochemical	0 - 25%	0.1%	±0.1% vol
CO	Electrochemical	0 - 8000 ppm	1 ppm	<300 ppm=±10 ppm up to 2000 ppm=±4% >2000 ppm=±10%
CO Auto Range	Electrochemical	0 - 20,000 ppm	1 ppm	±10% rdg.
NO	Electrochemical	0 - 4000 ppm	1 ppm	<125 ppm=±5 ppm up to 4000 ppm=±4%
NO_2	Electrochemical	0 - 1000 ppm	1 ppm	<125 ppm=±5 ppm up to 1000 ppm=±4%
Low NO and/or Low NO_2	Electrochemical	0 - 500 ppm	0.1 ppm	<50 ppm=±2 ppm up to 500 ppm=±4%
NO_x	Calculated	0 - 5000 ppm	1 ppm	
SO_2	Electrochemical	0 - 4000 ppm	1 ppm	<125 ppm=±5 ppm up to 4000 ppm=±4%
CO_2	Calculated	0 - 99.9%	0.1%	
Tair	Pt100	-10 - 99.9°C 14.0 - 212.0°F	1°C 1°F	± 2°C ± 3°F
Tgas	Tc K	0 - 999.9°C 32.0 - 1830°F	1°C 1°F	± 3°C ± 5°F
ΔT	Calculated	0 - 999.9°C 32.0 - 1830°F	1°C 1°F	
Pressure/Draft	Bridge	±40.0 inH2O	0.1 inH2O	±1% rdg.
Excess Air	Calculated	1.00 - infinity	0.01	
Gas Velocity	Calculated	0 - 99.9 m/s 0 - 330 ft/s	0.1 m/s 0.1 ft/s	
Efficiency	Calculated	1 - 99.9%	0.1%	

Rotating Display with Zoom

The LCD display screen has a back light and can be rotated for greater ease and convenience. The parameters displayed can be zoomed in to view from a distance or zoomed out for more parameters at once on the display screen.

Calibration

The analyzer comes standard with a complete factory calibration. The analyzer can easily be recalibrated with span gas cylinders. Recalibration is recommended at least once each year to ensure analyzer accuracy.

E5500

E5500 Ordering Code

Part # E5500 - Table A - Table B

Table A - Electrochemical Gas Sensors

N O_2, CO, NO, & NO_2 Sensors (with CO Dilution Auto-Range up to 20,000 ppm)
S O_2, CO, NO, & SO_2 Sensors (with CO Dilution Auto-Range up to 20,000 ppm)
5 O_2, CO, NO, NO_2, & SO_2 Sensors (with CO Dilution Auto-Range up to 20,000 ppm)

Table B - Sampling Probes and Hoses

12   12" (300mm) Probe, 1470F (800C) max, with 10' (3m) Dual Hose
30   30" (750mm) Probe, 1470F (800C) max, with 10' (3m) Dual Hose
40HT 40" (1m) Probe, 2190F (1200C) max, with 10' (3m) Hose for
   High Temperature Combustion Applications
60HT 60" (1.5m) Probe, 2190F (1200C) max, with 10' (3m) Hose for
   High Temperature Combustion Applications

Standard E5500 Configuration Includes the following:
-External water trap assembly with mounting piece
-Rechargeable battery pack
-110-240VAC/50-60Hz battery charger
-Stack gas & air temperature measurements
-Draft & differential measurements
-Calculated values for efficiency, excess air, & CO2%
-Internal memory (1000 Tests)
-Real-Time software package with Bluetooth module for PC
-USB communications cable
-Bluetooth Wireless communications
-Protective carrying case
-Calibration certificate
-Operations manual

Weight: 11 lbs. (5 kg)   Dimensions: 10x6x9.5" (26x15x24 cm)