Flue Gas Analyzer with Nitric Oxide Measurement

Functions
- Measures: CO, CO_2, NO, Pressure, Flue and Inlet Temperature
- Calculates: O_2, Differential Temperature, Efficiency (Net, Gross), Excess Air, Losses, CO/CO_2 Ratio, Differential Pressure

Features
- EOS Technology
- Over-range protection pump
- NOx Filtered CO Sensor
- Heat Exchanger Test
- Large 6 Line backlit Display
- Water Trap Indicator
- High Altitude Compensation
- Wireless Module
- Low Flow Detection

Includes
- Gas Analyzer (C164)
- Flue probe (CP2)
- 3 Rechargeable batteries (AA)
- USB Charging cable (WIR00067)
- Particle Filter (17631)
- Tubing with connector (11000)
- 2 K-type probe (ATT29)
- Quick Start Guide (201991)
- Carrying case (AC509)

Dynamic Warranty
- 1-Year Limited Warranty
- Warranty is extended one year with each annual recertification, up to 6 years

Display showing:
```
O2    5.00%
CO2   9.00%
CO      52P
T1     154F
T2      62F
09:42
```

EOS ELECTRO-OPTICAL SENSOR TECHNOLOGY™ **NO O2 SENSOR REPLACEMENT** **NOx Filtered**

See Our Complete Line of Combustion Analyzers

	C161	C162	C163	C164	C165
CO sensor	✔	✔	✔	✔	✔
CO2 EOS sensor	✔	✔	✔	✔	✔
O2 calculated	✔	✔	✔	✔	✔
Heat Exchange Test	-	✔	✔	✔	✔
Over-Range Pump	-	-	✔	✔	✔
Pressure (Differential)	-	-	✔	✔	✔
Wireless Module	-	-	✔	✔	Optional
NO sensor	-	-	-	✔	Optional
CO Room Test	-	-	-	-	✔
Commissioning Test	-	-	-	-	✔

Downloads

Manual   **Data Sheet**

0 53533 50854 3

Made in UNITED KINGDOM

Specifications

Temperature Measurement

Parameter	Range	Resolution	Accuracy
Flue Temperature	32° to 1112°F (0° to 600°)	0.1°F (0.1°C)	±0.5°F (0.5°C)
Inlet Temperature (internal Sensor)	32° to 1112°F (0° to 600°)	0.1°F (0.1°C)	±1°F (1°C)
Inlet Temperature (External Sensor)	32° to 1112°F (0° to 600°)	0.1°F (0.1°C)	±0.5°F (0.5°C)

Flue Gas Measurement

Parameter	Range	Resolution	Accuracy
Carbon Monoxide	0 to 2000 ppm	1 ppm	±3 ppm or ±5% rdg (whichever is greater)
Carbon Dioxide	0 to 20%	0.1%	±0.3% volume
Nitric Oxide (if fitted)	0 to 600 ppm	1 ppm	±5 ppm or 5% (whichever is greater)

Calculations

Parameter	Range	Resolution	Accuracy
Oxygen	0 to 21%	0.1%	±0.3% volume
Efficiency (Net or Gross)	0 to 99.9%	0.1%	±1% rdg
Efficiency High (C)	0 to 119.9%	0.1%	±1% rdg
Excess Air	0 to 119.9%	0.1%	±0.2% rdg
CO/CO_2 Ratio	0 to 0.9999	0.0001	±5% rdg

	Range	Resolution	Accuracy
Pressure (Differential)	±80 mBar	0.1 mBar	±0.5% FSD

Preprogrammed Fuels	Pellets, Light Oil, LPG, Butane, Propane, Natural Gas, Bio Oil, Heavy Oil

Battery Life	>8 hours (continuous with pump on)

Certification	The C160 Series is TUV-tested and certified to EN 50379, Parts 1-3 in accordance to 1st German Federal Emission Control Ordinance (BimSchV)

Operating Conditions

Temperature	32° to 113°F (0° to 45°C)
Humidity	15% to 90% R.H.
Power Supply	Rechargeable Batteries, USB Charging

Dimensions	8.54" x 4.18" x 1.86"
Weight	1 lb., 5.1 oz.

Backed by Industry-Leading Service

- 2-Business day turnaround on standard recertification
- Flat rate pricing
- ISO/IEC Accredited Facilities (Indianapolis and Vancouver B.C.)
- NIST and ISO Accredited Service
- Factory-certified technicians

ECS — ELECTRO-OPTICAL SENSOR TECHNOLOGY™

No O2 Sensor - What it means to you

The Challenge

Direct contact between flue gases and O2 sensors will eventually wear down the sensor and force costly replacement.

Even when your analyzer is "off" the O2 sensor is still in Oxygen, accelerating the process.
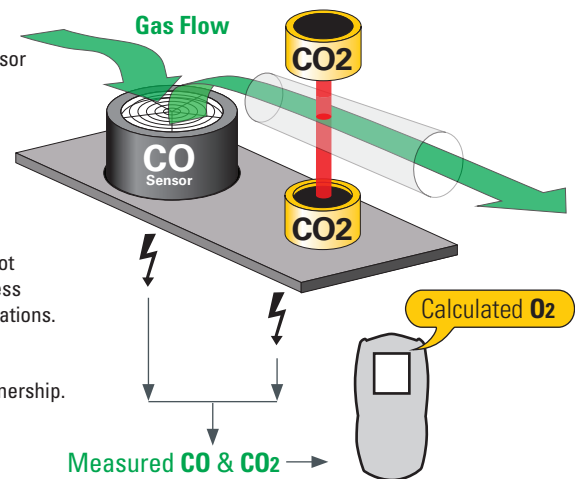
Over your analyzer's lifetime, the cost adds up.

Gas Flow
CO Sensor
O2 Sensor
Calculated **CO2**
Measured **CO** & **O2**
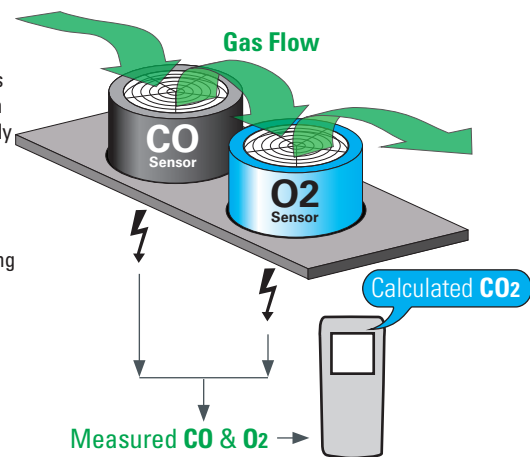
The Solution

Replace the Oxygen sensor with UEi's "EOS" Carbon Dioxide (CO2) sensor. Our technology protects the sensor because flue gases don't make direct contact with it.

Because the sensor is not wearing down, there's less risk of inaccurate calculations.

No O2 sensor to replace means lower cost of ownership.

Gas Flow
CO2
CO Sensor
CO2
Calculated **O2**
Measured **CO** & **CO2**

One Less Sensor to Worry About!