



Flue Gas Analyzer with Direct CO₂ Measurement



- ✓ **6-Line Display**
See all your readings on one screen.
- ✓ **EOS Technology**
Lower cost-of-ownership over your analyzer's lifetime.
- ✓ **NOx Filtered**
Better accuracy, avoids cross contamination.
- ✓ **Water Trap Indication**
Alerts you when the water trap is getting full.
- ✓ **High Altitude Compensation**
Automatically compensates readings for altitude.

Functions

- Measures: CO, CO₂, Flue and Ambient Temperature
- Calculates: O₂, Efficiency (Net or Gross), Excess Air, CO/CO₂ Ratio and Differential Temperature

Features

- 8 preprogrammed fuels
- IR printer port
- Low flow detection
- Auto-purge at shut down
- Protective rubber boot w/ magnet
- 30 memory positions
- 1-Year limited warranty



Includes

- Flue Gas Combustion Analyzer (C161)
- Flue Probe w/ Cone & Hose (CP2)
- USB Charging Cable
- Quick Start Guide
- 3 AA Rechargeable Batteries

Downloads



Manual



Data Sheet



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)		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)
(Optional H ₂ Compensated (if Applicable))	2000 to 10000 ppm	1 ppm	±10% rdg
Carbon Dioxide	0 to 20%	0.1%	±0.3% volume

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

Preprogrammed Fuels	Pellets, Light Oil, LPG, Butane, Propane, Natural Gas, Bio Oil, Heavy Oil
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Battery Life	>8 hours (continuous with pump on)
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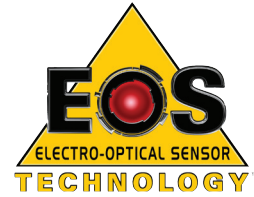
Certification	The C160 Series is TUV-tested and certified to EN 50379, Parts 1-3 in accordance to 1st German Federal Emission Control Ordinance (BimSchV)
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Operating Conditions

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

Dimensions

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



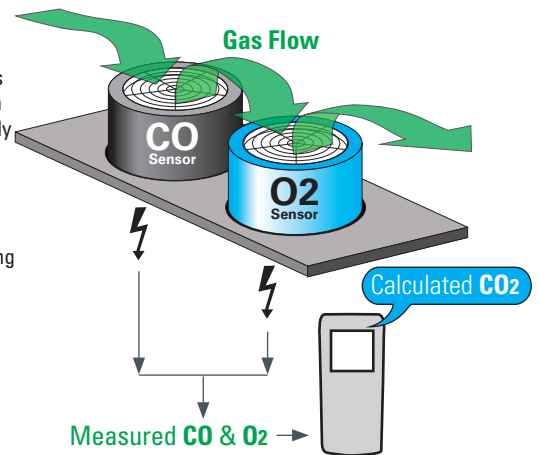
No O₂ Sensor What it means to you

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.

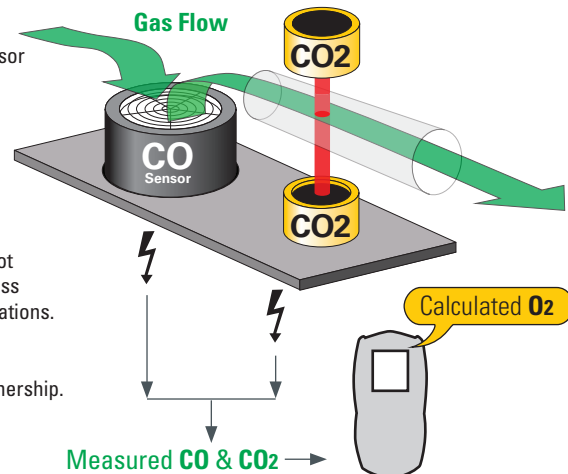


The Solution

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.



One Less Sensor to Worry About!