



## Flue Gas Analyzer with Differential Pressure



### Functions

- Measures: CO, CO<sub>2</sub>, Pressure, Flue and Inlet Temperature
- Calculates: O<sub>2</sub>, Differential Temperature, Efficiency (Net, Gross), Excess Air, Losses, CO/CO<sub>2</sub> Ratio, Differential Pressure

### Features

- EOS Technology
- Over-range protection pump
- NO<sub>x</sub> 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 (C163)
- Flue probe (CP2)
- 3 Rechargeable batteries (AA)
- USB Charging cable (WIR00067)
- Particle Filter (17631)
- Tubing with connector (11000)
- 2 K-type probe (ATT29)
- Hardcase (AC504)
- 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

### See Our Complete Line of Combustion Analyzers

	C161	C162	C163	C164	C165
CO sensor	✓	✓	✓	✓	✓
CO <sub>2</sub> EOS sensor	✓	✓	✓	✓	✓
O <sub>2</sub> calculated	✓	✓	✓	✓	✓
Heat Exchange Test	-	✓	✓	✓	✓
Over-Range Pump	-	-	✓	✓	✓
Pressure (Differential)	-	-	✓	✓	✓
Wireless Module	-	-	✓	✓	Optional
NO sensor	-	-	-	✓	Optional
CO Room Test	-	-	-	-	✓
Commissioning Test	-	-	-	-	✓

### Downloads



Manual

Data Sheet



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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

### 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 <sub>2</sub> Ratio	0 to 0.9999	0.0001	±5% rdg

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

<b>Preprogrammed Fuels</b>	Pellets, Light Oil, LPG, Butane, Propane, Natural Gas, Bio Oil, Heavy Oil
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<b>Battery Life</b>	>8 hours (continuous with pump on)
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<b>Certification</b>	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

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

<b>Dimensions</b>	8.54" x 4.18" x 1.86"
<b>Weight</b>	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



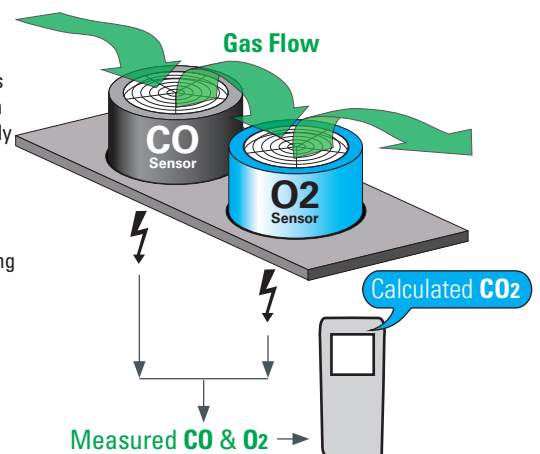
## No O<sub>2</sub> Sensor - What it means to you

### The Challenge

Direct contact between flue gases and O<sub>2</sub> sensors will eventually wear down the sensor and force costly replacement.

Even when your analyzer is "off" the O<sub>2</sub> sensor is still in Oxygen, accelerating the process.

Over your analyzer's lifetime, the cost adds up.

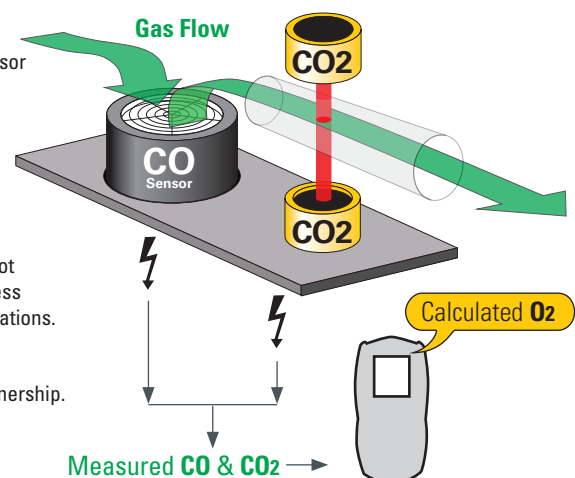


### The Solution

Replace the Oxygen sensor with UEI's "EOS" Carbon Dioxide (CO<sub>2</sub>) 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 O<sub>2</sub> sensor to replace means lower cost of ownership.



## One Less Sensor to Worry About!