



# Flue Gas Analyzer with Direct CO<sub>2</sub> Measurement



BACKED BY



**10**  
YEAR  
WARRANTY



## Functions

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

## Features

- Backed by UEi Service+
- Up to 10-Year warranty with annual recertification
- Large 6-line backlit display
- Heat Exchanger test
- 2 levels of sensor protection
- NO<sub>x</sub> filtered CO sensor
- Low Flow Detection to protect reading accuracy
- High altitude compensation
- Temperature Differential w/ K-Type probe inputs
- Protective water trap
- Print to UEi IRP-2 printer
- 8 pre-programmed fuels
- Protective rubber boot with magnet
- DMM-style rotary dial



## Includes

- Flue Probe (CP2)
- USB Charging cable (AAC45)
- Rechargeable batteries 3 (AA)
- Carrying Case (AC509)
- Printer (IRP-2)
- Paper Roll spare (16646)
- Particle Filter (spare) (17631)
- K-Type Thermocouples 2 (ATT29)
- Quick Start Guide (201991B)



## Specifications

### Temperature Measurement

Parameter	Range	Resolution	Accuracy
Flue Temperature	32° to 1112°F (0° to 600°C)	0.1°F (0.1°C)	±(0.3% rdg +3.6°F (2°C))
Inlet Temperature (Internal Sensor)	32° to 122°F (0° to 50°C)	0.1°F (0.1°C)	±2°F (1°C)
Inlet Temperature (External Sensor)	32° to 1112°F (0° to 600°C)	0.2° (0.1°C)	±1.0°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 <sub>2</sub> Compensated)	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
Excess Air	0 to 119.9%	0.1%	±0.2% rdg

<b>Pre- Programmed Fuels</b>	Natural Gas, Propane, LPG, Light Oil, Heavy Oil, Bio Oil, Pellets
<b>Battery Life</b>	>8 hours (continuous with pump on)
<b>Certification</b>	The C161 is TUV-tested and certified to EN 50379, Parts 1-3 in accordance to 1st German Federal Emission Control Ordinance (BimSchV)
<b>Operating Conditions</b>	
<b>Temperature</b>	32° to 113°F (0° to 45°C)
<b>Humidity</b>	15% to 90% R.H.
<b>Storage Temperature</b>	0° to 113°F (-18° to 50°C)
<b>Power Supply</b>	Rechargeable Batteries, USB Charging
<b>Dimensions</b>	
<b>Dimensions</b>	8.54" x 4.18" x 1.86"
<b>Weight</b>	1 lb., 5.1 oz.

## Downloads



### Data Sheet



### Manual



Made in UNITED KINGDOM



## Available Kits



	C161C	C161OIL	C161KIT	C161OILKIT
UPC #	053533509250	053533509373	053533509236	053533509366
Analyzer/Probe	•	•	•	•
Batteries/Charging Cable	•	•	•	•
Carrying Case	•	•	•	•
Quick Start Guide (201991B)	•	•	•	•
K-type Temp Probes/Spare Filter			•	
Printer/Spare Paper Roll			•	
Smoke Pump Tester (for oil-fired appliances)		•		•