



Flue Gas Analyzer with Direct CO₂ Measurement



BACKED BY

UEi
SERVICE+

10
YEAR
WARRANTY

8
HR
SERVICE

ups
FREE
SHIPPING

Functions

- Measures: CO, CO₂, Flue Temperature, Inlet temperature
- Calculates: O₂, 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
- NOx 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)
- Smoke Pump Tester
- Quick Start Guide (201991B)



Specifications

Temperature Measurement

Parameter	Range	Resolution	Accuracy
Flue Temperature	32° to 1112°F (0° to 600°)	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°)	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 ₂ 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

Pre- Programmed Fuels	Natural Gas, Propane, LPG, Light Oil, Heavy Oil, Bio Oil, Pellets
Battery Life	>8 hours (continuous with pump on)
Certification	The C161 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.
Storage Temperature	0° to 113°F (-18° to 50°C)
Power Supply	Rechargeable Batteries, USB Charging
Dimensions	
Dimensions	8.54" x 4.18" x 1.86"
Weight	1 lb., 5.1 oz.

C161OIL Available Kits Options	C161	C161OIL	C161OILKIT
UPC #	053533508338	053533509373	053533509366
Analyzer / flue probe	•	•	•
Rechargeable Batteries	•	•	•
USB charging cable	•	•	•
Quick start guide	•	•	•
Hard case		•	•
Smoke pump test kit		•	•
K-Type Thermocouples			•
IR thermal printer			•

Downloads



Data Sheet



Manual



Made in UNITED KINGDOM

