



Flue Gas Analyzer with Direct CO₂ Measurement

Functions

- Measures: CO, CO₂, Flue Temperature, Inlet temperature
- Calculates: O₂, Differential Temperature, Efficiency (Net, Gross), Excess Air

Features

- Up to 6-Year warranty with annual recertification
- Eligible for UEI Service+
- Large 6-line backlit display
- Heat Exchanger test
- 2 levels of sensor protection
- NOx filtered CO sensor
- Low Flow Detection
- High altitude compensation
- Temperature Differential w/ K-Type probe inputs
- Protective water trap
- Print to optional printer
- 8 pre-programmed fuels
- Protective rubber boot with magnet
- DMM-style rotary dial
- 1-Year limited warranty

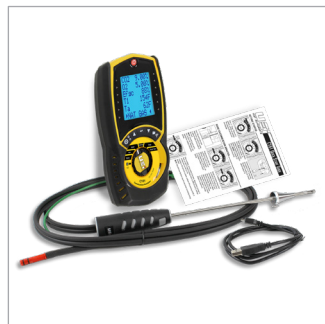
BACKED BY

UEI
SERVICE+

6
YEAR
WARRANTY

24
HR
SERVICE

FREE
SHIPPING



Includes

- Probe (CP2)
- Rechargeable batteries 3 (AA)
- USB Charging cable (WIR00067)
- Quick Start Guide (201996)



Specifications

Temperature Measurement

Parameter	Range	Resolution	Accuracy
Flue Temperature	32° to 1112°F (0° to 600°)	0.1°F (0.1°C)	±1.0°F (0.5°C)
Inlet Temperature (Internal Sensor)		0.1°F (0.1°C)	±2°F (1°C)
Inlet Temperature (External Sensor)	32° to 1112°F (0° to 600°)	0.1°F (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
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Battery Life	>8 hours (continuous with pump on)
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Certification	The C161 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.

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.

Downloads



Data Sheet



Manual



Made in UNITED KINGDOM