



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

## Functions

- Measures: CO, CO<sub>2</sub>, Flue Temperature, Inlet temperature
- Calculates: O<sub>2</sub>, 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
- NO<sub>x</sub> 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

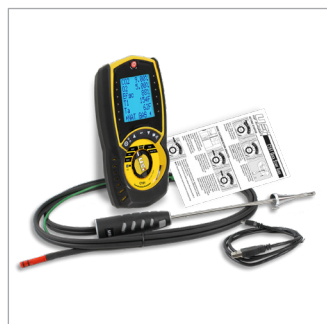
BACKED BY



**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 H2 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) |
|----------------------|--|

### Operating Conditions

|                    |                           |
|--------------------|---------------------------|
| <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 |

### Dimensions

|                   |                       |
|-------------------|-----------------------|
| <b>Dimensions</b> | 8.54" x 4.18" x 1.86" |
| <b>Weight</b>     | 1 lb., 5.1 oz.        |