

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

Test Equipment Depot - 800.517.8431 - TestEquipmentDepot.com

## 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
- 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 optional printer
- 8 pre-programmed fuels
- Protective rubber boot with magnet
- DMM-style rotary dial

BACKED BY

**UEi**  
SERVICE+

**10**  
YEAR  
WARRANTY

**SAME  
DAY  
SERVICE**  
GUARANTEED

**ups**  
FREE  
SHIPPING



## Includes

- Flue Probe (CP2)
- Smoke Pump Test Kit (SPT1)
- USB Charging Cable (WIR00067)
- Rechargeable Batteries 3 (AA)
- Carrying Case (AC509)
- Quick Start Guide (201996)

## 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.   |

| 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             |              |              | •            |

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