



6-Line Display Combustion Analyzer with NO Oxygen Sensor



Award-Winning EOS Sensor Technology

HVAC professionals have benefitted from UEi's EOS technology for over 10 years.

NO Oxygen Sensor to Replace

This lowers cost-of-ownership with one less sensor to maintain. Over the lifespan of an analyzer this saves hundreds of dollars.

Functions

- EOS CO₂ sensor
- CO sensor (NOx filtered)
- O₂ calculated
- Flue & Ambient Temperature
- Differential Temperature
- Draft
- Differential Pressure
- NO sensor (optional upgrade)
- Heat Exchange Test
- Room CO Test
- Commissioning Test

Features

- High Altitude Compensation
- No O₂ sensor replacements
- NOx Filtered CO sensor
- Purge Pump
- 160 memory positions
- Auto purge at shut off
- Built-in condensate trap w/ window
- 6 Line Display
- 15 Fuel Selections
- Optional Wireless Module for Mobile App

Warranty Expandable To 6 years

C165 analyzer comes with 1-year limited warranty that can be extended each year during the annual service to provide 6 years of protection. See reverse side for full details.

C165 Includes

- Combustion Analyzer
- 12" Flue Probe w/ 10' Hose
- Inlet tube/Probe connector
- Hard Carrying Case

C165KIT Includes

- Combustion Analyzer
- 12" Flue Probe w/ 10' Hose
- Inlet tube/Probe connector
- Particle Filter (spare)
- AC Adapter
- K-type Temperature Probes (2)
- Owners Manual
- Hard Carrying Case
- Infrared Thermal Printer
- Paper Roll (spare)

C165BTKIT Includes

- Combustion Analyzer
- 12" Flue Probe w/ 10' Hose
- Inlet tube/Probe connector
- Particle Filter (spare)
- AC Adapter
- K-type Temperature Probes (2)
- Owners Manual
- Hard Carrying Case
- Installed Wireless Module





Specifications

Parameter	Range	Resolution	Accuracy
Temp Measurement			
Flue Temperature	32-1112°F	0.1°F	+3.6°F +0.3% reading
Inlet Temperature (Internal sensor)	32-112°F	0.1°F	+1.8°C +0.3% reading
Inlet Temperature (External sensor)	32-1112°F	0.1°F	+3.6°F +0.3% reading
Flue Gas Measurement			
Oxygen* ²	0-21%	0.1%	+0.3%
Carbon monoxide * ¹	0-20ppm	1ppm	+3ppm +5% reading
	21-2,000ppm		
	Above 2000ppm Purge pump operates		Unspecified
Carbon dioxide * ¹	0-20%	0.1%	+0.3% volume
Efficiency (Net or Gross) * ²	0-99.9%	0.1%	+1.0% reading
Efficiency High (C) * ²	0-119.9%	0.1%	+1.0% reading
Excess Air * ²	0-250%	0.1%	+0.2% reading
CO/CO2 ratio * ²	0-0.999	0.0001	+5% reading
Pressure (differential)			
Nominal range ±80mbar Maximum over range without damage to sensor is ±400mbar	±0.08" wc (+0.2 mbar)	Maximum 0.001" wc < 9.999"wc 0.01" wc >10.00"wc (0.001 mBar < 24.99 mbar) (0.01 mBar > 25 mbar)	±0.002" wc (±0.005 mBar)
	±0.4" wc (±1mBar)		±0.01" wc (±0.03 mBar)
	±32" wc (±80mBar)		+3% of reading
Pre-Programmed Fuels	Natural gas, Propane, Butane, LPG, Light Oils (28/35 sec), Wood Pellets, Town Gas, Coke Gas, Bio Oil, Bio Gas		
User programmed Fuels	5 user defined fuels		
Storage Capacity	60 Combustion tests		
	20 Pressure & Temperature tests		
	20 Heat Exchange tests		
	20 Temperature tests		
	20 Room CO tests		
	20 Commissioning tests		

*¹ Using dry gases at STP

*² Calculated

Annual Recertification

C165 Recertification: Calibration or Full Service	
Year 1	1-Year Limited Warranty
Year 2	Extended 1-Year
Year 3	Extended 1-Year
Year 4	Extended 1-Year
Year 5	Extended 1-Year
Year 6	Extended 1-Year

* Fixed Annual service cost: \$165.95

Prices are in US dollars as of Jan. 2019.

Annual Recertification includes:

- Full 30-point inspection by factory trained professionals
- Replacement of sensors or calibration ensuring your analyzer is up to manufacturer's specifications
- Software and firmware updates
- Another 12-month warranty on the analyzer
- List of work performed, and parts replaced
- A certificate of calibration

Downloads



Data Sheet



Manual

Downloads

C165



C165KIT



C165BTKIT

