



EOS Digital Industrial Combustion Analyzer



C255 & C257

- Measures: CO₂, high range CO, ambient CO, differential temperature, differential pressure
- Calculates: O₂, gross/net efficiency, excess air, CO air free,

C257 Adds

- Measures: N^{ox}

Features

- Electro-optical CO₂ sensor technology
- No oxygen sensor replacement
- The first Industrial EOS technology analyzer
- Worklight
- 4 line backlit LCD display
- 179 memory positions
- User customizable parameters view
- Individual report printouts
- Unique DMM style rotary selector
- Protective boot with integral magnet
- Real time clock
- CO readings to 1 ppm
- Infrared printer port
- 5-Year limited warranty (includes sensors)

Applications

- Confirm set up parameters (to manufacturers specifications)
- Verify proper combustion, equipment efficiency and integrity
- Analyze combustion gas makeup and stack gases
- Set gas pressures
- Measure temperatures for live fire of gases, temperature rise and differential drops across coils, inlet and superheat readings
- Perform pressure test for drops across coils, gas pressures, limit switches, building pressures and zone pressures
- Document equipment performance before and after servicing tests to show compliance





Includes

Analyzer	C255 Options		C257 Options	
	C255	C255KIT	C257	C257KIT
UEI Part Number				
Kit Type	A. Analyzer only	B. Combustion kit	A. Analyzer only	B. Combustion kit
UPC Code	05353350724	05353350725	05353350726	05353350727
Combustion Analyzer	•	•	•	•
12" Flue Probe w/ 10' Hose	•	•	•	•
Inlet tube/Probe connector	•		•	
AC Adapter		•		•
K-type Temperature Probes (2)		•		•
Owners Manual	•	•	•	•
Hard Carrying Case	•	•	•	•
Particle Filter (spare)		•		•
Infrared Thermal Printer		•		•
Paper Roll (spare)		•		•
Training DVD		•		•
NOx Sensor pre-installed			•	•

Specifications

Temperature Measurements

Parameter	Range	Resolution	Accuracy
Flue Temperature	32 - 1112°F (0 - 600°C)	1.0 °F/°C	±(0.3% reading+3.6°F(2.0°C))
Inlet Temperature (Internal sensor)	32 ~ 122 °F (0-50°C)		±(0.3% reading+1.8°F(1.0°C))
Inlet Temperature (External sensor)	32 - 1112°F (0 - 600°C)		±(0.3% reading+3.6°F(2.0°C))

Gas Measurements

Parameter	Range	Resolution	Accuracy
Carbon Monoxide (CO)	0 - 60 ppm	1ppm	±3ppm
	61 - 4,000ppm nom		±5% of reading
	4,001ppm - 10,000ppm		±10% of reading
20,000ppm max for 15 mins	1ppm	Not specified	
Carbon Dioxide (CO ₂)	0 - 20%	0.1%	±0.3% volume

Calculations

Parameter	Range	Resolution	Accuracy
Oxygen (O ₂)	0 - 21%	0.10%	±0.3%
Efficiency	0 - 99.9%		±1.0% of reading
Excess Air	0 - 250%		±0.2% of reading
CO/CO ₂ ratio	0 - 0.999	0.0001	±5% of reading

Nitric Oxide Measurement (C257)

Parameter	Range	Resolution	Accuracy
Nitric Oxide (NO) low	2 - 30 ppm	1ppm	±2 ppm < 30ppm
	31 - 100 ppm		±5 ppm > 30ppm
Nitric Oxide (NO) high	5 - 100 ppm		±5 ppm < 100ppm
	101 - 1000 ppm		±5% reading > 100ppm

Pressure (Differential)

Parameter	Range	Resolution	Accuracy
Nominal range ±64.2 InH ₂ O (160mBar)	±0.6 InH ₂ O	Maximum 0.001 InH ₂ O	±0.02 In H ₂ O
Max over-range w/o damage to sensor is ±321InH ₂ O (800 mBar)	±64.2 InH ₂ O	<10 InH ₂ O	±3% of reading

Pre-programmed Fuels	Natural gas, Propane, Butane, LPG, Light Oils (28/35 sec), Wood Pellets PLUS 3 User defined
Storage Capacity	99 Combustion tests, 20 Pressure tests, 20 Heat Exchange tests, 20 Temperature tests / 20 Room CO tests
Operating Altitude:	2000m (6,561 ft.)
Storage Altitude:	10,000m (32,808 ft.)
Operating Temperature:	32°F to 104°F (0°C to 40°C) at 10 - 90% R.H
Pollution Degree:	2
Dimensions:	Handset: 7.9" (200mm) x 3.5" (90mm) x 1.8" (45mm) Probe: (L) 11.8" (300mm) x (D) 0.25" (6mm) with 7.8" (200mm) 6ft (3m) neoprene hose
Weight:	2.2lbs (1kg)
Certifications:	EMC EN 50081-1, EN 50082-1, CE
Battery Type:	4 x 1.5V AA
Battery Life:	>8Hrs using AA Alkaline
Power Supply Input:	110V AC Output: 9V DC Regulated

Downloads



Manual



Data Sheet

H85-904



Made in UK
C255



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C257