

10,000ppm H2 Compensated Long Life CO Sensor



Functions

- Measures: CO₂, Extended range CO (with H₂ compensated sensor), Ambient CO, Differential temperature, Differential pressure
- Calculates: O₂, Gross/net efficiency, Excess air, CO Air free.
- Optional Nitric Oxide (NO) sensor (C257)

Features

- Electro optical CO₂ sensor technology
- No oxygen sensor replacement
- Worklight
- 4 line backlit LCD display
- 179 memory positions
- User customizable parameters view
- Individual report printouts
- 5 Year limited warranty





C255 / C257 Includes

- Combustion Analyzer (C255)
- Flue Probe (KMCP2)
- Hard Carrying Case (AC509)
- Inlet Tube/Probe Connector (SM11103)
- Particle Filter (17631)
- Owners Manual



C255KIT / C257KIT Includes

- Combustion Analyzer (C255)
- Infrared Thermal Printer (KMIRP2)
- Flue Probe (KMCP2)
- Hard Carrying Case (AC509)
- Inlet Tube/Probe Connector (SM11103)
- Particle Filter (17631)
- AC Adapter (AACA4)
- Thermal printer paper roll (16646)
- Owners Manual

SPECIFICATIONS

Parameter	Range	Resolution	Accuracy
Temperature Measurements			
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)	1.0 °F/°C	±(0.3% reading+1.8°F(1.0°C))
Inlet Temperature (External sensor)	32 - 1112°F (0 - 600°C)	1.0 °F/°C	±(0.3% reading+3.6°F(2.0°C))
Gas Measurements			
Carbon Monoxide (CO) ^{*1}	0 - 60 ppm	1ppm	±3ppm
	61 - 4,000ppm nom	1ppm	±5% of reading
	4,001ppm - 10,000ppm	1ppm	±10% of reading
	20,000ppm max for 15 mins	1ppm	Not specified
Carbon Dioxide (CO ₂) ^{*1}	0 - 20%	0.1%	±0.3% volume
Calculations			
Oxygen (O ₂) ^{*2}	0 - 21%	0.1%	±0.3%
Efficiency ^{*2}	0 - 99.9%	0.1%	±1.0% of reading
Excess Air ^{*2}	0 - 250%	0.1%	±0.2% of reading
CO/CO ₂ ratio ^{*2}	0 - 0.999	0.0001	±5% of reading
Nitric Oxide Measurement (C257)			
Nitric Oxide (NO) low	2 - 30 ppm	1ppm	±2 ppm < 30ppm
	31 - 100 ppm	1ppm	±5 ppm > 30ppm
Nitric Oxide (NO) high	5 - 100 ppm	1ppm	±5 ppm < 100ppm
	101 - 1000 ppm	1ppm	±5% reading >100ppm
Pressure (Differential)			
Nominal range ±64.2 InH ₂ O (160mBar) Max over-range w/o damage to sensor is ±321InH ₂ O (800 mBar)	±0.6 inH ₂ O	Maximum 0.001 InH ₂ O <10 InH ₂ O	±0.02 In H ₂ O
	±64.2 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		

GENERAL SPECIFICATIONS

- **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