



ECOM CN

Portable Emission Analyzer

- Measures O₂, CO & NO (NO_x)
- CO₂, efficiency & excess air calculations
- Stack temperature and draft measurement
- Backlit LCD display
- IR printer port
- Gas cooler & moisture alarm with shutdown
- 1.5+ lpm pump
- Automatic purge / Sensor overrange protection
- On-board data storage

The ECOM CN is an easy to use, handheld gas analyzer designed for basic combustion monitoring in a variety of applications.

The ECOM CN is fitted with 2-3 gas sensors, measuring O₂, CO & NO plus Stack and Ambient Temperatures, and Stack Pressure and Draft. The CN also calculates CO₂, Efficiency, Losses, Excess Air and Oxygen correction 0-20%.

The instrument is housed in a robust composite case suitable for rugged field use. On-board data storage for up to 500 separate readings. An IR printer port transmits data to a portable printer for on-the-spot print-outs. A large LCD displays all measured and calculated parameters at once, or can be “zoomed” to show only those particular measurements the operator wants to see. The tactile keypad guides the operator through the various functions of the analyzer.

The ECOM CN sample conditioning system consists of a high flow pump and radiant gas cooler with moisture trap. An automatic shut-off activates when the gas cooler filter becomes saturated. Another unique feature of the CN is an Automatic and Manual CO bypass function which protects the CO sensor from over exposure.

MEASUREMENT (KEY)	RANGE	ACCURACY	RESOLUTION	SENSOR LIFE	SENSOR TYPE
Oxygen (O)	0-21% vol.	± 2% Measured	0.1% vol.	2 Years	Electrochemical
Carbon Monoxide (C)	0-4,000 ppm	± 2% Measured	1 ppm	3 Years	Electrochemical
Carbon Monoxide (V)	0-40,000 ppm	± 2% Measured	1 ppm	3 Years	Electrochemical
Nitric Oxide (N)	0-4,000 ppm	± 2% Measured	1 ppm	3 Years	Electrochemical
Gas Temperature	32-1800 F	± 2% Measured	1 deg F	10 Years	NiCrNi
Ambient Temperature	0-250 F	± 2% Measured	1 deg F	10 Years	Semi-conductor
Draft / Pressure	± 40" H ₂ O	± 2% Measured	0.1% H ₂ O	10 Years	DMS
O ₂ Correction	0-20% Oxygen				
NO _x	Calculated NO _x by programming NO ₂ factor				
Carbon Dioxide CO ₂	0-CO ₂ max of fuel	Calculated			
Efficiency	0-99.9%	Calculated			
Excess Air (Lambda)	1-infinity	Calculated			

*ACCURACY: When calibrated prior to use per ECOM America, Ltd. specifications.

Physical

Instrument: 3" x 10" x 4"

Probe: 10" Length x 3/8" OD Inconel w/ Pistol Grip Handle*

Sample Line: 15' high-temp flex hose w/thermocouple wire*

Weight: 1 lb.

Electrical

Batteries: 6-8 hour battery life, 6V lead-acid

Pump: Flow rate of 1.5+ lpm

Display: Backlit, adjustable contrast & zoom, displays all parameters simultaneously.

Operating Temperature

Core temperature of the instrument is monitored continuously. Internal Temperature Compensation software assures accurate sensor response over the range of 20°F to 104°F.

*Optional probe & sample line lengths are available.

Customer Service / Technical Support

ECOM America Ltd. has built an outstanding reputation in the industries we serve by providing a high quality product and responsive technical support to our customers. We maintain a large inventory of analyzers and parts to assure fast delivery of new items and quick turnaround on service. Always Expect Responsive Customer Support & Service from ECOM!

Order Information

ECOM CN

CN is available with 2 sensors.
Common configurations include:

2 Gas	3 Gas
OC	OLN
OV	OVN



Accessories & Options:

Infrared Printer, Thermal Printer Paper

Consumables:

Condensate / Particulate Filters

Parts & Accessories:

Refillable Calibration Gas Bottles

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