

## ECOM AC

### Portable Emission Analyzer



- Measures O<sub>2</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, combustibles
- CO<sub>2</sub>, efficiency & excess air calculations
- Stack temperature and draft measurement
- Large, backlit LCD display
- On - board impact printer
- Gas cooler with automatic moisture drain
- In-line flowmeter
- Automatic purge / Sensor overrange protection
- Advanced DAS 2.0 software compatible

*The ECOM AC is our #1 selling Portable Emission Analyzer. Measuring up to 6 different gases, plus calculations of all common combustion parameters, it is ideal for service and maintenance of any oil or gas fired combustion system.*

The ECOM AC, the most versatile analyzer in the ECOM line, offers ease of use, high quality design, and excellent reliability when measuring the exhaust gases of fossil fuel fired combustion sources. The AC is most commonly used for maintenance and trouble-shooting of commercial & industrial combustion systems, such as steam boilers, burners in Process Heaters, liquid and gaseous fuel fired reciprocating engines and turbines, and performance testing of combustion and pollution control devices. Housed in a rugged, aluminum reinforced case, the AC can be fitted with 4-7 gas sensors, including O<sub>2</sub>, CO (2 ranges), NO, NO<sub>2</sub>, SO<sub>2</sub>, and Combustibles. Known for quick response, the AC incorporates a high flow pump, a radiant gas cooler and self-draining moisture trap to properly cool the gas sample. Our proprietary flow and pressure controls deliver precise samples of gas to the sensors, ensuring long-term stability and unmatched reliability.

The ECOM AC is delivered to you, ready to use, complete with 15 ft. sample line & 1 ft. probe, extra filters, printer paper, and operation manual.



MEASUREMENT (KEY)	RANGE	ACCURACY	RESOLUTION	SENSOR LIFE	SENSOR TYPE
Oxygen (O)	0-21% vol.	± 2% Reading	0.1%	2 Years	Electrochemical
Carbon Monoxide (C)	0-4,000 ppm	± 2% Reading	1 ppm	3 Years	Electrochemical
Carbon Monoxide (V)	0-40,000 ppm	± 2% Reading	5 ppm	3 Years	Electrochemical
Nitric Oxide (N)	0-4,000 ppm	± 2% Reading	1 ppm	3 Years	Electrochemical
Nitrogen Dioxide (X)	0-500 ppm	± 2% Reading	1 ppm	3 Years	Electrochemical
Sulfur Dioxide (S)	0-5,000 ppm	± 2% Reading	1 ppm	3 Years	Electrochemical
Combustibles (H)	0-6% vol.	± 2% Reading	0.01%	5 Years	Pellister
Ambient Temperature	0-250°F	± 3°F	1°F	10 Years	IC Sensor
Stack Temperature	32.0-1,800°F	± 3°F	1°F	10 Years	Ni/CrNi T/C
Stack Draft	0-40.00" H <sub>2</sub> O	± 2% Reading	0.01" H <sub>2</sub> O	10 Years	Piezoresistive
Efficiency	0-100%		1%		Calculated
Carbon Dioxide (CO <sub>2</sub> )	0-CO <sub>2</sub> Max		0.1%		Calculated
Lambda	0-50%		0.01%		Calculated
Losses	0-100%		1%		Calculated
O <sub>2</sub> Correction	0-20.0% vol.		0.1%		Calculated

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

## Physical

*Instrument:* 19" x 16" x 6.5" Aluminum Carry Case  
*Probe:* 13" Length x 3/8" OD Inconel w/ Pistol Grip Handle\*  
*Hose:* 15' high-temp flex hose w/thermocouple wire\*  
*Weight:* 28 lbs.

## Electrical

*AC:* 110V 60Hz / 220V 50Hz (User selectable)  
*Batteries:* Lead-acid rechargeable, life of 2.0-3.0 hrs.  
*Pump:* Flow rate of 2.5 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 AC

### Common Sensor Configurations:

4 Gas	5 Gas	6 Gas	7 Gas
OCNX	OCVNX	OCVNXH	OCVNXSH
OVNX	OCNXH	OCNXSH	
	OVNXH	OVNXSH	
	OCNXS		



### Consumables:

Water Trap / Particulate Filters, NO<sub>x</sub> / SO<sub>2</sub> Filter Media, Printer Paper / Printer Ribbon

### Parts & Accessories:

Transport / Shipping Cases, Remote Displays, Refillable Calibration Gas Bottles, Data Acquisition Software

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