

## ECOM J2KN

### Portable Emission Analyzer



- Measures O<sub>2</sub>, CO, NO<sub>x</sub>, “Low NO<sub>x</sub>”, SO<sub>2</sub>, & Combustibles
- CO<sub>2</sub>, Efficiency & Excess Air Calculations
- Stack Temperature and Draft Measurement
- Wireless remote control with backlit LCD display
- On - board impact printer
- Thermoelectric Gas cooler & automatic moisture drain
- In-line flowmeter with 3.5+ lpm pump
- Automatic purge / Sensor overrange protection
- Advanced DAS 2.0 software compatible plus wireless data transmission to your PC

*The ECOM J2KN with wireless remote control is a portable emission analyzer offering world-class performance in a rugged, user-friendly package.*

The J2KN's handheld remote allows complete wireless operation of the analyzer, a large LCD showing all values at a glance, zoom display capability, and plug-in memory up to 128 MB. The remote display feature makes the J2KN an ideal emission analyzer where combustion controls are located away from the flue test port on large combustion systems.

The J2KN can be fitted with sensors to measure O<sub>2</sub>, CO, NO, NO<sub>2</sub>, SO<sub>2</sub>, and Combustibles, along with gas and ambient temperatures, stack draft & pressure, plus calculations of CO<sub>2</sub>, efficiency, dew point and excess air. A special Low NO<sub>x</sub> version of the J2KN is designed for single digit NO<sub>x</sub> measurements with resolution to 0.1 PPM!

Standard ECOM features include high flow pump with flowmeter, integral impact printer, thermoelectric gas cooler with automatic condensate drain, on board data storage, and proven CO overrange protection. Sensor life generally averages 2-3 years due to proprietary design of sensor manifold and gas delivery system. Along with superior performance features, the J2KN also offers wireless transmission of real time data via remote receiver connected to your laptop PC using ECOM's Advanced DAS program. Complete emission reports are transmitted and stored to your laptop while on-site.

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
Nitric Oxide (.N)	0-400 ppm	± 2% Measured	0.1 ppm	3 Years	Electrochemical
Nitrogen Dioxide (X)	0-500 ppm	± 2% Measured	1 ppm	3 Years	Electrochemical
Nitrogen Dioxide (.X)	0-50 ppm	± 2% Measured	0.1 ppm	3 Years	Electrochemical
Sulfur Dioxide (S)	0-5,000 ppm	± 2% Measured	1 ppm	3 Years	Electrochemical
Combustibles (H)	0-6.00 % vol.	± 2% Measured	0.01% vol	5 Years	Pellister
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 <sub>2</sub> O	± 2% Measured	0.1% H <sub>2</sub> O	10 Years	DMS
O <sub>2</sub> Correction	0-20% Oxygen				
Smoke Scale	0-9				
Carbon Dioxide CO <sub>2</sub>	0-CO <sub>2</sub> 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:* 16" x 10" x 12" Aluminum Carry Case  
*Probe:* 13" Length x 3/8" OD Inconel w/ Pistol Grip Handle\*  
*Sample Line:* 15' high-temp flex hose w/thermocouple wire\*  
*Weight:* 28 lbs.

### Electrical

*AC:* 110/220V 50/60Hz (User selectable)  
*Batteries:* 6-8 hour battery life, 12V lead-acid  
*Pump:* Flow rate of 3.5+ 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 J2KN

J2KN is available with 2-5 sensors. Common configurations include:

2-3 Gas	4 Gas	5 Gas
OC	OCNX	OCVNX
OCN	OC.N.X	OCV.N.X
		OC.N.XH
		OC.N.XS
		OCNXS
		OCNXH



### Consumables:

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

### Parts & Accessories:

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

ECOM America, Ltd.  
 1628 Oakbrook Drive  
 Gainesville, GA 30507  
 Toll Free: 877.326.6411  
 Tel: 770.532.3280  
 Fax: 770.532.3620  
 info@ecomusa.com  
 www.ecomusa.com

