ECOM J2KN

Portable Emission Analyzer

- Measures O2, CO, NOX, "Low NOX", SO_2, & Combustibles

- CO_2, 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_2, CO, NO, NO_2, SO_2, and Combustibles, along with gas and ambient temperatures, stack draft & pressure, plus calculations of CO_2, efficiency, dew point and excess air. A special Low NOx version of the J2KN is designed for single digit NO_X 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 overange 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.		Electrochemical
Carbon Monoxide (C)	0-4,000 ppm	± 2% Measured	1 ppm		Electrochemical
Carbon Monoxide (V)	0-40,000 ppm	± 2% Measured	1 ppm		Electrochemical
Nitric Oxide (N)	0-4,000 ppm	± 2% Measured	1 ppm		Electrochemical
Nitric Oxide (.N)	0-400 ppm	± 2% Measured	0.1 ppm		Electrochemical
Nitrogen Dioxide (X)	0-500 ppm	± 2% Measured	1 ppm		Electrochemical
Nitrogen Dioxide (.X)	0-50 ppm	± 2% Measured	0.1 ppm		Electrochemical
Sulfur Dioxide (S)	0-5,000 ppm	± 2% Measured	1 ppm		Electrochemical
Combustibles (H)	0-6.00 % vol.	± 2% Measured	0.01% vol		Pellister
Gas Temperature	32-1800 F	± 2% Measured	1 deg F		NiCrNi
Ambient Temperature	0-250 F	± 2% Measured	1 deg F		Semi-conductor
Draft / Pressure	± 40" H_2O	± 2% Measured	0.1% H_2O		DMS
O_2 Correction	0-20% Oxygen				
Smoke Scale	0-9				
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: 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_x / SO_2 Filter Media, Printer Paper / Printer Ribbon

Parts & Accessories:
Transport / Shipping Cases, Refillable Calibration Gas Bottles, Data Acquisition Software

ECOM®