

RUGGED RELIABLE ACCURATE LIGHTWEIGHT



ECOM - BIOGAS

RAW / FLUE GAS MEASUREMENT



BIOGAS PLANT

Our analyzers can measure up to nine gas components simultaneously (model dependent); e.g. O₂, CH₄, H₂S, H₂, NO_x and allow for draft readings.



LANDFILL

ECOM offers various options for measuring hydrocarbons (HC), in addition to temperature and flow measurements (optional).



CHP PLANT & ENGINES

For accurate NO_x measurements, ECOM emissions analyzers are equipped with a gas cooler, an industrial gas pump and feature temperature controlled calibration.



CHOOSE THE MODEL THAT FITS YOUR NEEDS

BIOGAS & LANDFILL GAS MEASUREMENTS

- CH₄ (NDIR) sensor, 0-100%
- H₂S (EC) sensor, 0-5,000 ppm
- 15 ft. Viton sampling tubing

SOFTWARE CAPABILITIES

- Snapshot or cycle testing
- Easy data access
- Customizable report generation
- Automated testing
- Mass emissions and volumetric calculation
- Pre- and post test calibration

EMISSION ANALYSIS IN CHP APPLICATIONS

- O₂/CO (H₂ comp.) / NO / NO₂ long life sensors
- Preset for NO_x measurements, with mg/m³ at 5% O₂ - reference (user adjustable)
- PTFE NO_x / SO_x tubing
- Differential pressure meter
- Leak detector for combustible gases
- Variety of filtration options



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TECHNICAL SPECIFICATIONS

✓ = Standard O=Option

Measurements	Range	Accuracy	Resolution	Sensor type	ecom-D	ecom-EN3-F	ecom-J2KNpro
Oxygen (O ₂)	0-21% vol	± 0.2% vol	0.1% vol	Electrochemical	✓	✓	✓
Carbon Monoxide (CO)	0-10,000 ppm	± 2% Measured*	1.0 ppm	Electrochemical	✓	✓	✓
Carbon Monoxide (high)	0-63,000 ppm	± 2% Measured*	5.0 ppm	Electrochemical	O	O	O
Nitric Oxide (NO)	0-5000 ppm	± 5% Measured*	1.0 ppm	Electrochemical	O	O	O
Nitric Oxide (low)	0-500 ppm	± 5% Measured*	0.1 ppm	Electrochemical	O	O	O
Nitrogen Dioxide (NO ₂)	0-1000 ppm	± 5% Measured*	1.0 ppm	Electrochemical	O	O	O
Nitrogen Dioxide (low)	0-100 ppm	± 5% Measured*	0.1 ppm	Electrochemical	O	O	O
Sulfur Dioxide (SO ₂)	0-5000 ppm	± 5% Measured*	1.0 ppm	Electrochemical	O	O	O
Hydrogen (H ₂)	0-2,000 ppm	± 5% Measured*	1.0 ppm	Electrochemical	✓	✓	✓
Hydrogen (H ₂)	0-20,000 ppm	± 5% Measured*	1.0 ppm	Electrochemical	O	O	O
Hydrogen Sulfide (H ₂ S)	0-1,000 ppm	± 5% Measured*	1.0 ppm	Electrochemical	O	O	O
Hydrogen Sulfide (H ₂ S)	0-5,000 ppm	± 5% Measured*	1.0 ppm	Electrochemical	O	O	O
Combustibles (C _x H _y)	0-4.00% vol		0.01% vol	Pellistor	O	O	O
Methane (CH ₄)	0-3.00%	± 3% Measured*	0.01% vol	Infrared	O	O	O
Methane (CH ₄)	0-100%	± 5% of the upper range*	0.01% vol	Infrared	O	O	O
Carbon Dioxide (CO ₂)	0-20%	± 5% Measured*	0.1% vol	Infrared	O	O	O
Carbon Dioxide (CO ₂)	0-100%	± 5% of the upper range*	0.1% vol	Infrared	O	O	O
Carbon Monoxide	1000-63,000ppm	± 5% Measured*	10 ppm	Infrared	O	O	O
Propane	0-2000ppm	± 5% Measured*	1.0 ppm	Infrared	O	O	O
Draft / Pressure	±40" H ₂ O	± 2% Measured*	0.004" H ₂ O	DMS	✓	✓	✓
Gas Temperature	32-1832° F**	± 0.5%			✓	✓	✓
Ambient Temperature	40-122° F	± 1° F			✓	✓	✓
O ₂ Correction	0-20% O ₂	Calculated			✓	✓	✓
Carbon dioxide	0-CO ₂ max of fuel	Calculated			✓	✓	✓

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

** Probe dependent

DIMENSIONS

ecom-D:
7.3 x 3 x 5 in
28 lbs weight



ecom-EN3-F:
16 x 11 x 8 in
16.5 lbs weight



ecom-J2KNpro Industrial:
17.5 x 9.8 x 12 in
29 lbs weight



CONTACT US