

RUGGED RELIABLE ACCURATE LIGHTWEIGHT



## ECOM-D VERSATILITY AT ITS BEST

The ecom-D analyzer is engineered to perfectly adapt to your individual testing needs. We offer custom configurations and features like an App to allow for remote readings and wireless data transfer to your tablet or smart phone as well as PC based software for customized reporting.



## BUILT WITH OUR CUSTOMER IN MIND

### ECOM-D FEATURES

- UP TO 6 ELECTROCHEMICAL SENSORS, INCLUDING INFRARED
- SENSOR OPTIONS: O<sub>2</sub>, CO, NO, NO<sub>2</sub>, SO<sub>2</sub>, H<sub>2</sub>S, C<sub>x</sub>H<sub>y</sub>, CO<sub>2</sub> & CH<sub>4</sub> (IR)
- CO PURGE PUMP TO PREVENT OVERSATURATION
- CONDENSATE TRAP WITH ELECTRONIC SHUT OFF
- AMBIENT OR PELTIER COOLER SAMPLE CONDITIONER
- FLUE GAS, AMBIENT & SENSOR TEMPERATURE
- AVERAGING TEST FEATURE
- ONBOARD CALCULATIONS FOR CO<sub>2</sub>, EFFICIENCY, EXCESS AIR AND O<sub>2</sub> CORRECTION

### ECOM-D ADD-ONS

- E-COMPLY TESTING & REPORTING SOFTWARE
- CALIBRATION GAS KIT
- HEATED SAMPLE LINE
- INFRARED OR ATTACHED PRINTER

## SOFTWARE CAPABILITIES

- Snapshot or Cycle Testing
- Easy Data Access
- Customizable Report Generation
- Automated Testing
- Mass Emission and Volumetric Calculations
- Pre & Post Test Calibration



For more detailed information please visit [www.cleanair.com](http://www.cleanair.com)

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## ECOM-D HIGHLY VERSATILE, RESULT FOCUSED

### ECOM-D TECHNICAL SPECIFICATIONS

Measurements	Range	Accuracy	Resolution	Sensor***	Sensor type
Oxygen (O <sub>2</sub> )	0-21% vol	± 0.2% vol	0.1% vol	4-5 Years	Electrochemical
Carbon Monoxide (CO)	0-10,000 ppm	± 2% Measured*	1 ppm	6-8 Years	Electrochemical
Carbon Monoxide (high)	0-63,000 ppm	± 2% Measured*	5 ppm	6-8 Years	Electrochemical
Nitric Oxide (NO)	0-5,000 ppm	± 5% Measured*	1 ppm	6-8 Years	Electrochemical
Nitric Oxide (low)	0-500 ppm	± 5% Measured*	0.1 ppm	6-8 Years	Electrochemical
Nitrogen Dioxide (NO <sub>2</sub> )	0-1,000 ppm	± 5% Measured*	1 ppm	6-8 Years	Electrochemical
Nitrogen Dioxide (low)	0-100 ppm	± 5% Measured*	0.1 ppm	6-8 Years	Electrochemical
Sulfur Dioxide (SO <sub>2</sub> )	0-5000 ppm	± 5% Measured*	1 ppm	6-8 Years	Electrochemical
Hydrogen Sulfide (H <sub>2</sub> S)	0-1000 ppm	± 2% Measured*	1 ppm	4 Years	Electrochemical
Carbon Dioxide (CO <sub>2</sub> )	0-20% vol	± 5% Measured*	0.1% vol	5 Years	Infrared Sensor
Methane (CH <sub>4</sub> )	0-5% vol	± 5% Measured*	0.01% vol	5 Years	Infrared Sensor
Combustibles (C <sub>x</sub> H <sub>y</sub> )	0-4% vol		0.01% vol	5 Years	Pellistor
Draft / Pressure	± 40" H <sub>2</sub> O	± 2% Measured*	0.004" H <sub>2</sub> O	10 Years	DMS
Gas Temperature	32-1832 F**	± 0.5%			
Ambient Temperature	40-122° F	± 1° F			
O <sub>2</sub> Correction	0-20% Oxygen	Calculated			
Carbon Dioxide	0-CO <sub>2</sub> max of fuel	Calculated			

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

\*\* Probe dependent

\*\*\* Sensor life will vary due to frequency of use and application



**Your Logo** Engine Emissions Test Report  
Emissions Test Date: 07/08/2015 03

00001547  
ECOM  
Steve Service  
Phone: 770.332.3880

CO: g/BHP-Hr\* NOx: g/BHP-Hr\*

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**Your Logo** Boiler Combustion Test Report  
Emissions Test Date: 06/14/2016 02

ECOM  
Procter & Gamble Company Inc.  
John Smith  
Phone: (770) 332-3380  
1700 Peachtree Drive  
Gainesville, GA 30607  
Mobile: (770) 874-4388  
Email: john.smith@pg.com

**PHYSICAL LOCATION**  
Operational Area: Gainesville Facility Name: Corporate H2

**EQUIPMENT INFORMATION**  
Unit Name: Boiler 1 National Identifier: 14281785 Boiler Parameters go here  
Boiler Type: Process  
Boiler Make: Clever Brocks  
Boiler Model: NHT  
Boiler Serial: 19-25458  
Boiler Serial: 12010220

**PERMIT INFORMATION**  
Permit #: 123456 Permit Date: 10/10/2015 Permit CO Level: 1200  
Permit Equipment #: 123456 Permit Units: ppm @ 15 % O<sub>2</sub> Permit NOx Level: 250

**ANALYZER INFORMATION**  
Model: ecom-JD10pro Industrial Serial #: 9058 Last Stability Test: 00/00/00  
Last Linearity Test: 00/00/00

**Emissions Test Results**

Unit	Test	CO	CO <sub>2</sub>	CH <sub>4</sub>	H <sub>2</sub>	NO	NO <sub>2</sub>	NOx	SO <sub>2</sub>	H <sub>2</sub> S	O <sub>2</sub>	Temp	Pressure
ppm	01/11/06	Custom	Custom	0.15	200.00	47.00	0.00	46.00	0.00	0.00			
ppm	01/11/11	Custom	Custom	1.10	472.00	80.00	0.00	80.00	0.00	0.00			
ppm	01/11/28	Custom	Custom	0.80	488.00	80.00	0.00	80.00	0.00	0.00			

**ANALYZER AVERAGE INFORMATION**

Test	CO	CO <sub>2</sub>	CH <sub>4</sub>	H <sub>2</sub>	NO	NO <sub>2</sub>	NOx	SO <sub>2</sub>	H <sub>2</sub> S	O <sub>2</sub>	Temp	Pressure
Total Average CO	1.07%											
Total Average CO <sub>2</sub>	146.871 ppm											
Total Average CH <sub>4</sub>	0.633 ppm											
Total Average H <sub>2</sub>	146.07 ppm											
Total Average NO	11.000 ppm											
Total Average NO <sub>2</sub>	0.000 ppm											

Technician: \_\_\_\_\_ Date: \_\_\_\_\_

e-Comply software

### ELECTRICAL

Battery life: 3-5 hour,  
6V 3.3Ah Li-ion  
Pump: Flow rate of 0.8-1.0 lpm  
Display: Backlit adjustable  
contrast & zoom, displays all  
parameters simultaneously

### DIMENSIONS

7.25" x 3.0" x 5.0"  
3.5 lbs weight  
Standard with 9 ft or 15 ft  
sample line  
1 ft probe



Industrial package

### CONTACT US

Clean Air Engineering  
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Palatine, IL 60067

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Tel: 847.654.4677  
express@cleanair.com

For more detailed information please visit [www.cleanair.com](http://www.cleanair.com)

**ECOM-D handheld analyzer  
adapts to your needs and  
delivers accurate results.**