ecom-D

Our compact professional analyzer for verification & tuning work.
Combined with our e.CLOUD App allows for wireless data transfer and centrally managed reporting.

Engineered to perfectly adapt to your individual testing needs



HANDHELD COMBUSTION ANALYSIS

Bluetooth WiFi

Made in Germany

Reliable
Protected by a rugged Pelican case, a metal chassis, and an industrial sample condition system

Efficient
Largest gas pump in its class allows for quick measurement

Versatile
Measuring low NO_x, high temperature or velocity, the ecom-D can be customized to meet your individual testing needs

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ecom® Measurement Technology

"Built with our customers in mind."

HIGHLY VERSATILE, RESULT FOCUSED

Tuning burners, reciprocating engines and gas turbines



- Up to six sensors (electrochemical, Pelistor & infrared)
- CO sensor over-range protection with fresh air purge avoids measurement interruption
- Ambient or Peltier cooler sample conditioner
- Electronically monitored condensate trap
- Quickest response time in its class
- H_2- ready and solid measurement possible

● = Basis EC ● = Optional EC ● = Optional NDIR; ● = Optional Pellistor

O_2 | CO | NO | NO_2 | CO % | SO_2 | H_2 | H_2S | CO_2 | CH_4 | C_xH_y

Technical data			√ Standard • Option
Measurements	**Range**	**Resolution**	**Accuracy**	
Sensors				6
O_2	0...21 %	0,1 vol. %	± 0,3 vol. %	√
CO (H_2-comp.)	0...2,500 ppm (10,000 ppm)	1 ppm	± 5 % measured	√
CO%	0...63,000 ppm	5 ppm	± 10 % measured	•
CO_2 IR-sensor	0...20 vol. %	0,01 vol. %	± 5 % measured	•
	0...100 vol. %	0,01 vol. %	± 5 % measured	•
NO	0...5,000 ppm	1 ppm	± 5 ppm measured	•
$NO_{ExtraLow}$	0...500 ppm	0,1 ppm	± 5 ppm measured	•
NO_2	0...1,000 ppm	1 ppm	± 5 ppm measured	•
$NO_{2\,Low}$	0...100 ppm	0,1 ppm	± 5 ppm measured	•
NO_x	sum of NO/NO_2			
SO_2	0...5,000 ppm	1 ppm	± 5 ppm measured	•
H_2	0...2,000 ppm	1 ppm	± 5 ppm measured	•
	0...20,000 ppm	1 ppm	± 5 ppm measured	•
H_2S	0...1,000 ppm	1 ppm	± 5 ppm measured	•
	0...5,000 ppm	1 ppm	± 5 ppm measured	•
CH_4 IR-sensor	0...5 vol. %	0,01 vol. %	± 5 % measured	•
	0...100 vol. %	0,1 vol. %	± 5 % vol. % of range	•
C_xH_y Pellistor	0...4 vol. %	0,01 vol. %		•

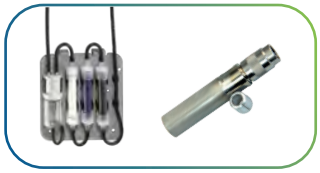
Technical data	
Calculated values	**Range**
CO_2	0...$CO_{2\,max}$
Combustion efficiency (ETA)	1...120 %
Excess air (lambda)	>1
Losses qA	0...100 %
$CO_{(U)}$ undiluted	x ppm
dew point	x° C
mg/m^3	x mg/m^3
mg/kWh	x mg/kWh
NO_x	ppm
O_2 correction	x % O_2

Measurements	Range	Resolution	Accuracy	
T-Gas	32...932 °F	0,1 °F	± 1,5 % measured	√
	32...1,832 °F	0,1 °F	± 1,5 % measured	•
T-Air	32...210 °F	0,1 °F	± 1 °F	√
Draft | △P	± 40° H_2O	0.004" H_2O	± 2 % measured	√

Optional Add-ons

- Stack velocity kit
- Heated sample lines with custom lenghts
- Mini gas cooler to reduce NO_x/SO_x drop out
- Attached printer or IR Printer

Pre-Filters
To provide additional protection for soot heavy applications.



Probe pipes
For different lenght and temperature requirements.



ecom-DP
Differential pressure meter that combines multiple manometers into one.



e.CLOUD by ecom
Digital reporting, data-, customer& equipment management.



As of 09/24, design and technical changes as well as possible printing errors are subject to change.