



**ALL-IN-ONE ANALYZER
THE PERFECT COMBINATION
OF A WALL-POSITIONED AND
FLOOR-STANDING
INSTRUMENT**



USER PROFILE FOR ECOM® FLUE GAS ANALYSERS



CRAFTS
Mechanical Contractors



SERVICE ORGANISATIONS & FACILITY-MANAGEMENT
Maintenance & adjustment of home smaller boilers. Manufacturers of smaller boilers; Facility Management (building maintenance companies). Service divisions with many technicians.



BURNER & BOILER MANUFACTURERS
Companies manufacturing resp. maintaining larger boiler and burner. Service divisions with lots of technicians.



COGENERATION
Companies manufacturing resp. maintaining engines or combined heat and power plants. An exact NO_x measurement is of importance in this sector.



OIL & GAS
Raw material production
Transport
Processing



INDUSTRIAL APPLICATIONS
Mining
Foundries
Cement factories
Cookery plants
Chemical process heating
Waste combustion, etc.
etc.usw.

ECOM-CL2 – FLUE GAS ANALYSER

✓ = Standard • = Option

MEASUREMENT	RANGE	RESOLUTION	ACCURACY	
Maximal amount of electrochemical gas sensors			*= Higher value prevails	3
O ₂	0...21 %	0,1 vol.%	± 0,3 vol. %	✓
CO ppm (H ₂ -comp.)	0...4000 ppm	1 ppm	± 20 ppm / 5% of meas. value*	✓
CO ppm (n. H ₂ -comp.)	0...2000 ppm	1 ppm	± 20 ppm / 5% of meas. value*	•
NO	0...5000 ppm	1 ppm	± 5 ppm / 5% of meas. value*	•
T-Gas	32...932°F	1°F		✓
T-Air	-4...250°C	1°F		✓
Pressure / ΔP	± 100 hPa	0,01 hPa	± 2%	✓
CALCULATION			RANGE	
CO ₂			0...CO ₂ max	✓
Combustion efficiency (ETA)			0...120%	✓
Excess air (Lambda)			>1	✓
Losses			0...100%	✓
CO _(U) undiluted			x ppm	✓
Dew point			x°F	✓
mg/m ³			x mg/m ³	✓
mg/kWh			x mg/kWh	✓
O ₂ reference			x %O ₂	✓
GAS SAMPLING / GAS TEMPERATURE MEASUREMENT / T-ROOM MEASUREMENT				
Sampling probe 9 inches (BB) Ø 0.3 inches, with				✓
3-chamber sampling tubing 7 feet (type B)				✓
Metal fixation cone				✓
T-Room sensor (PT 2000) length 3.9 inches, with cable (approx. 3.6 feet) & fixation cone				✓
DATA INDICATION / INPUT				
LCD display, 2.8 x 1.6 inches, backlid, graphic- and zoom capable, max. 8 lines				✓
Backlighted keypad for safe operation also by unfavourable surrounding lighting				✓
DATA PROCESSING / PRINTOUT				
Internal memory for 300 measurements				✓
Data exchange with ecom® PC-Software MiniDV, DAS.NT.2				✓
Integral thermal quick-printer 2.3 inches				✓
Interface for Bluetooth data transfer (BLE)				•
CONNECTION				
Serial interface for data transfer				✓
MEASUREMENT GAS PREPARATION				
Condensate trap with electronic level monitoring and fine dust filter				✓
POWER SUPPLY				
Main power / battery operation via integral NiMh battery resp. external battery charger				✓
External battery charger				✓
OPERATION SAFETY				
Temperature trend indication for stream core search				✓
Automatic CO switch-off (= sensor protection & prolongation of life span)				✓
Fresh air purge w/o. measurement interruption (= other values measured w/o. time loss)				✓
Fresh air purge after operation				✓
Pressure-compensated gas channel plate (optimized gas flow w/o. pressure fluctuation)				✓
STORAGE / TRANSPORT				
Aluminium housing with magnets on the back for operation as wall-positioned analyser				✓
Aluminium housing with folding tilt stand for operation as floor-standing analyser				✓
DIMENSIONS / WEIGHT / OTHERS				
Dimensions: by closed lid, approx. 13.4 x 9 x 3.7 inches (L x H x W)				
by unfolded tilt stand and open lid, approx. 13.4 x 31.8 x 7 inches (L x H x W)				
Weight: approx. 6.6 lbs complete with sampling probe				
Calibration certificate, issued after instrument calibration into calibration chamber				✓
Registered for approval acc. to 1. BImSchV and EN 50379-2 (H ₂ -comp. version)				✓
Registered for approval acc. to EN 50379-3 (non H ₂ -comp. version)				✓
Aluminium housing with 10 years guarantee				✓

ECOM-CL2 ALTERNATIVE

ecom-CL2, as 106003, but with
CO non H₂-Compensated 0-4000 ppm

Item no. 106002

GAS SENSOR OPTION

NO Measurement 0-5000 ppm

Item no. 106093

DATA OUTPUT / TRANSFER OPTION

BLUETOOTH (BLE), Direct equipment
Transfer / Recording of measurement values



(Item no. 106070)

DATA OUTPUT / TRANSFER ACCESSORY

DATA CABLE -> PC (USB)

- For transfer of data from analyser memory to PC or Laptop
- Length approx. 4.9'



Item no. 104003

T-ROOM MEASUREMENT ALTERNATIVE

T-ROOM STICK PT 2000

- Dimensions: approx. 1.1" x Ø 0.4"
- Weight: approx. 0.18 ounces



Item no. 102888

T-ROOM PROBE PT 2000

- Length 10.2", with 9.8' cable



Item no. 104569

SOOT MEASUREMENT MANUAL

SOOT PUMPT KIT

Consisting of each 1 manual soot, pump, soot comparison scale, tube of piston grease, socket wrench and 200 soot papers
Length: approx. 15.3"; weight: approx. 1.1 pounds



Item no. 50538

SAMPLING SYSTEM ACCESSORY

PROBE EXTENSION PIECE

With flexible silicone centerpiece. Slipped over probe tip by measurements at hardly accessible, angled measurement openings.

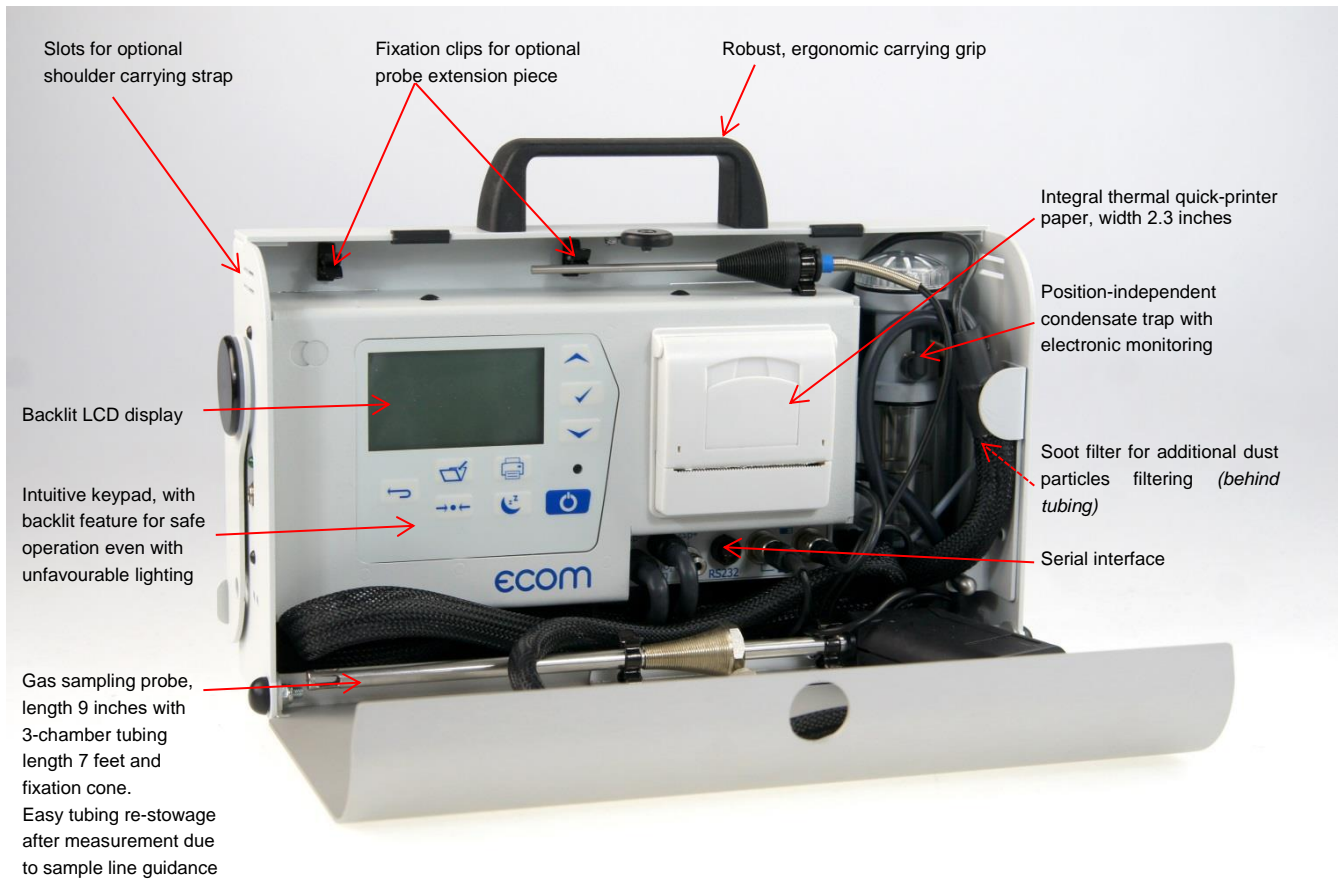


Item no. 103492

Remark: Because of the missing thermocouple within the extension piece, no accurate gas temperature can be measured. The value which finally reaches the thermocouple of the probe has been influenced by the heat loss along the gas conveyance path.

CONSUMABLES FOR STOCK

Thermal printer paper roll	Item no. 56181
Soot filter	Item no. 50508
Fine dust filters (pack of 10 pcs)	Item no. 100568



Three powerful magnets for safe positioning at boiler casing - also in case of lower magnetic pull material properties.

Easy and safe transport by affixing the analyzer to metal interior of service vehicle.



ECOM® PRODUCTS – YOUR PARTNERS FOR:
 BURNER DIAGNOSIS GAS LEAK DETECTION
 FLUE GAS ANALYSIS PRESSURE MEASUREMENT