

OPEN UP – SWITCH ON – MEASURE – SAVE DATA – DONE!



ECOM-CL2

**THE PERFECT COMBINATION OF
WALL-POSITIONED AND FLOOR-
STANDING INSTRUMENT!**


- COMPACT ANALYSER FOR SHORT-TIME MEASUREMENTS AT HOME AND SMALL-SIZED PLANTS WITH A PERFORMANCE OF UP TO 70 KWH.
- BASIC MODEL WITH O₂ / CO LONGLIFE SENSORS
- NO SENSOR OPTIONAL
- CO SENSOR OVERRANGE PROTECTION & FRESH AIR PURGE W/O. MEASUREMENT INTERRUPTION
- CONDENSATE TRAP WITH ELECTRONIC LEVEL MONITORING
- INTEGRAL THERMAL **QUICK-PRINTER**
- BACKLIT DISPLAY & KEYPAD
- BLUETOOTH LOW ENERGY –BLE–
- LITHIUM-ION BATTERY
- BATTERY RECHARGING ALSO BY CLOSED HOUSING LID
- SCHOKPROOF & ULTRALIGHT ALUMINIUM PROTECTIVE HOUSING

MEASUREMENT	RANGE	RESOLUTION	ACCURACY * = Higher value prevails	✓ = Standard ● = Option ■ = depending on basic package
Maximal amount of electrochemical gas sensors				3
O ₂	0...21 %	0,01 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	0...500°C	1°C	± 2°C (0-125°C) ± 3°C (125-250°C) ± 4°C (250-500°C)	✓
T-Air	0...99°C	1°C	± 1°C	✓
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°C	✓
mg/m ³			x mg/m ³	✓
mg/kWh			x mg/kWh	✓
O ₂ reference			x %O ₂	✓
NOx via NO measurement (estimated NOx value)			= 1.05 NO	●
GAS SAMPLING GAS TEMPERATURE MEASUREMENT T-ROOM MEASUREMENT				
Sampling probe 220 mm (BB) Ø 8 mm, with thermocouple				✓
3-chamber sampling tubing 2.20 m (type B)				✓
Metal fixation cone				✓
T-Room sensor (PT 2000) length 100 mm, with cable (approx. 1.1 m) & fixation cone				✓
DATA INDICATION / INPUT				
LCD display, 70 x 40 mm, backlighted, 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 58 mm				✓
Interface for Bluetooth Low Energy (BLE) data transfer				✓
CONNECTION				
Serial interface for data transfer				✓
MEASUREMENT GAS PREPARATION				
Condensate trap with electronic level monitoring and fine dust filter				✓
POWER SUPPLY				
Mains power / battery operation via integral Lithium-Ion battery 6 V / 3,8 Ah				✓
External battery charger 230 V / 50 Hz~; cable length approx. 3 m				✓
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 boiler-positioned analyser				✓
Aluminium housing with folding tilt stand for operation as floor-standing analyser				✓
Shoulder carrying strap				✓
DIMENSIONS WEIGHT OTHERS				
Dim.: by closed lid, approx. 340/230/95 mm; by open lid, approx. 340/350/180 mm (L x H x W)				
Weight: approx. 3 kg complete with sampling probe				
Calibration certificate, issued after instrument calibration into calibration chamber				✓
Tested and approved acc. to 1. BImSchV (O ₂ /CO/Temp./Pressure) & EN 50379-2 (CO-H ₂ -comp) / EN 50379-3 (CO non H ₂ -comp.)				✓
Aluminium housing with 10 years guarantee				✓
Admissible ambient temperature: +5... +40°C; max. 90 % rF, non-condensing				
Admissible storage temperature: -20... +50°C				
Fuel types: up to maximal 16 possible				
Recommended interval for check/maintenance: 1 year				

ECOM-CL2 | BASIC PACKAGES AT CHOICE


O₂, CO-H₂-compensated, T-Room sensor

Item no. 106561




O₂, CO-H₂-compensated, T-Room stick

Item no. 7106444




O₂, CO-n.-H₂-compensated, T-Room sensor

Item no. 7106445



O₂, CO-n.-H₂-compensated, T-Room stick

Item no.: on request



GAS SENSOR | OPTION

NO MEASUREMENT, 0-5000 PPM


(Item no. 106093)

DIFFERENTIAL PRESSURE | ACCESSORY

TUBING, for differential pressure measurement

(± 0-100 hPa), length approx. 1.5 m (4.9 ft.)

Item no. 102884



DATA OUTPUT / TRANSFER | ACCESSORY


DATA CABLE -> PC (USB)

• For transfer of data from analyser

memory to PC or Laptop

• Length approx. 1.5 m

Item no. 104003




T-ROOM MEASUREMENT | ALTERNATIVE

T-ROOM PROBE PT 2000

• Length 260 mm, with 3 m 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. 39 cm; weight: approx. 0.5 kg

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

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- ① Robust, ergonomic carrying grip
- ② Slots for shoulder carrying strap
- ③ Fixation clips for optional probe extension piece
- ④ T-Room sensor with fixation cone
- ⑤ Backlit LCD display
- ⑥ Integral thermal quick-printer. Paper width 58 mm.
- ⑦ Position-independent condensate trap with electronic condensate monitoring and fine dust filter
- ⑧ Backlit keypad for safe operation also by unfavourable lighting conditions
- ⑨ Serial interface RS232 (behind tubing)
- ⑩ Gas sampling probe length 220 mm with 3-chamber tubing 2.20 m and fixation cone. Simple and quick tubing re-stowage after measurement thanks to sample line guidance.

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

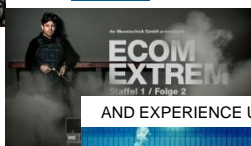
Easy and safe transport thru instant sticking
on metal parts of professional service cars.



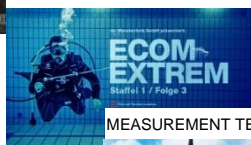
WATCH AT VIDEO CLIPS ON



OUR [YOUTUBE](#) CHANNEL



AND EXPERIENCE UNIQUE



MEASUREMENT TECHNOLOGY!



ecomMANDER APP

- ❄ SIMPLE CONNECTION
 - Automatic identification of ecom instrument via wireless pairing
 - Recording of last active connection
 - Use not limited to a specific instrument
- ❄ SIMPLE HANDLING
 - Remote monitoring of measurement
 - Start / stop of CO sensor purge
 - Printout of measurement results
 - Switch to stand-by mode
- ❄ SMART DATA PROCESSING
 - Display of all measurement parameters
 - Organisation of customer data
 - Recording and management of measurement values
 - Archiving and / or export of measurement values via PDF

Download free of charge



THE BELOW ICONS ILLUSTRATED IN ALL OUR PRODUCT INFORMATION SHEETS DO HAVE THE FOLLOWING MEANING:



EXTREMELY PRECISE - FOR EXACT MEASUREMENT ACCURACY.

After completion of the production process, the instrument is then professionally calibrated into a calibration chamber in order to eliminate possible cross-sensitivities. In order to measure in practice with the highest possible exactitude.



EXTREMELY EFFICIENT - ENHANCED CONVEYANCE CAPABILITY.

The product is fitted with a particularly performing pump which -compared to other instruments- is conveying many times over within the same period of time.



EXTREMELY BROAD REACH - WIRELESS COMMUNICATION.

Product fitted with radio module or Bluetooth LE (Low Energy) for wireless, unerring data transfer.



EXTREMELY SAFE – FOR MORE OPERATION SAFETY & PRODUCT LONGEVITY.

The model is or can be equipped with operation safety technique which protects its sensible components and contribute herewith to an increased life span.



EXTREMELY STABLE - SHOCK-PROOF.

Increased protection for safe transport / unintentional fall.
All-round protection provided by robust transport case resp. protective housing.



EXTREMELY COOL - DRIED SAMPLED GAS AND INCREASED READING ACCURACY.

The model is or can be equipped with a gas cooler which cools down the sampled gas and herewith makes sure that especially water-soluble gas components do not dilute but get conveyed to the sensors.



EXTREMELY LOSS-FREE – FOR SWIFT GAS TRANSPORT WITHOUT WASHOUT EFFECTS.

Special tubing either part of the standard model delivery package or available optionally provide with a quick gas transport, free of wash-out effects. Water-soluble components do not get lost but reach the measuring sensors.



EXTREMELY COMPLETE - ALL INCLUSIVE – PRODUCT READY-TO-MEASURE.

The product is completely ready to measure and does not require any further components to be operated. Respectively a kit of essential consumables is covered in the delivery package, thus avoiding being forced to quit a measurement process because of a missing spare filter or else small part.

FOCUSED APPLICATION RESPECTIVELY USER PROFILE ECOM® FLUE GAS ANALYSERS



CRAFTS
Chimney-sweep
Heating installer



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 specific 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.



ECOM® PRODUCTS – YOUR PARTNERS FOR:

BURNER DIAGNOSIS GAS LEAK DETECTION
FLUE GAS ANALYSIS PRESSURE MEASUREMENT

**FIND YOUR ECOM® SALES
POINT AND DEALER ON:**

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