

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



**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.
 - LONGLIFE GAS SENSORS
 - CO SENSOR OVERRANGE PROTECTION & FRESH AIR PURGE W/O. MEASUREMENT INTERRUPTION
 - NO SENSOR OPTIONAL
 - CONDENSATE TRAP WITH ELECTRONIC LEVEL MONITORING
 - INTEGRAL THERMAL **QUICK-PRINTER**
 - BACKLIT DISPLAY & KEYPAD
 - BLUETOOTH LOW ENERGY (BLE) OPTIONAL
-
- LITHIUM-ION BATTERY
 - SCHOKPROOF & ULTRALIGHT ALUMINIUM PROTECTIVE HOUSING
 - LATERAL BATTERY RECHARGING BY CLOSED HOUSING LID

MEASUREMENT	RANGE	RESOLUTION	ACCURACY ^{*= Higher value prevails}	
Maximal amount of electrochemical gas sensors				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	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		✓
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 acc. to 1. BImSchV & 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				

✓ = Standard ● = Option ■ = depending on basic package

ECOM-CL2 BASIC PACKAGES AT CHOICE

O₂, CO-H₂-compensated, T-Room sensor



Item no. 106443

O₂, CO-H₂-compensated, T-Room stick



Item no. 106444

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



Item no. 106445

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



Item no. 106446

GAS SENSOR OPTION

NO MEASUREMENT, 0-5000 PPM

(Item no. 106093)

DATA OUTPUT / TRANSFER OPTION

BLUETOOTH Low Energy (BLE), Direct equipment Transfer / Recording of measurement values (Operation compatible APP in development)

(Item no. 106070)

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**

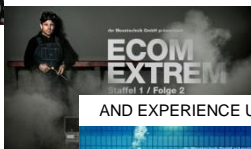


- ① Robust, ergonomic carrying grip
- ② Slots for shoulder carrying strap
- ③ Fixation clips for optional probe extension piece
- ④ T-Room sensor with fixation cone
- ⑤ Backlit LCD display
- ⑥ Integral thermal quick-printer. Paper width 58 mm.
- ⑦ Position-independent condensate trap with electronic condensate monitoring and fine dust filter
- ⑧ Soot filter for additional dust particle filtering
- ⑨ Backlit keypad for safe operation also by unfavourable lighting conditions
- ⑩ Serial interface RS232
- ⑪ 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.

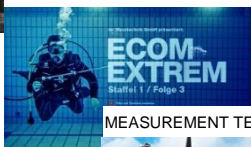
WATCH AT VIDEO CLIPS ON



OUR [YOUTUBE](#) CHANNEL



AND EXPERIENCE UNIQUE



MEASUREMENT TECHNOLOGY!



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.



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 or upgradeable with radio module, Bluetooth or Wi-Fi option 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

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