



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 PROT-ECTION & FRESH AIR PURGE W/O. MEASUREMENT INTERRUPTION
- CONDENSATE TRAP WITH ELEC-TRONIC LEVEL MONITORING
- INTEGRAL THERMAL QUICK-PRINTER
- BACKLIT DISPLAY & KEYPAD
- **OPTIONAL**



- LITHIUM-ION BATTERY
- BATTERY RECHARGING ALSO BY CLOSED HOUSING LID
- SCHOKPROOF & ULTRALIGHT ALUMINIUM PROTECTIVE HOUSING





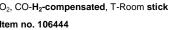
MEASUREMENT	RANGE	RESOLUTION	ACCURACY *= Higher value prevails		
Maximal amount of el		sensors		3	
O ₂	021 %	0,1 vol.%	± 0,3 vol. %	✓	
CO ppm (H ₂ -comp.)	04000 ppm	1 ppm	± 20 ppm / 5% of meas. value*	•	
CO ppm (n. H ₂ -comp.)	02000 ppm	1 ppm	± 20 ppm / 5% of meas. value*	•	
NO	05000 ppm	1 ppm	± 5 ppm / 5% of meas. value*	•	
T-Gas	0500°C	1°C	± 2°C (0-125°C) ± 3°C (125-250°C) ± 4°C (250-500°C)	✓	
T-Air	099°C	1°C	± 1°C	✓	
Pressure / ΔP	± 100 hPa	0,01 hPa	± 2%	1	
			RANGE		
CO ₂			0CO₂max	✓	
Combustion efficiency (ETA)			0120%	✓	
Excess air (Lambda)			>1	✓	
Losses			0100%	✓	
CO _(U) undiluted			x ppm	✓.	
Dew point			x°C	✓	
mg/m ³			x mg/m ³	√	
mg/kWh			x mg/kWh	√	
O ₂ reference	CASTEMBERAT	LIDE MEASURE	x %O ₂	✓	
			MENT 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 Control interfere for data transfer					
Serial interface for data transfer					
MEASUREMENT GAS PREPARATION					
Condensate trap wit	tn electronic level	monitoring and f	ine aust filter	✓	
POWER SUPPLY		to small little	- h	✓	
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					
	<u> </u>	z~; cable length	approx. 3 m	✓	
OPERATION SAFE				✓	
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 TRANS		(Spaniazou)		✓	
		he hack for oner	ation as holler-nositioned analyses	✓	
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					
	<u> </u>	/05 mm: by open	ı lid, approx. 340/350/180 mm (L x H x V	V)	
· ·			гііц, арргол. 040/300/100 IIIII (L х П х V	*)	
Weight: approx. 3 kg complete with sampling probe Calibration certificate, issued after instrument calibration into calibration chamber ✓					
Calibration certificate, issued after instrument calibration into calibration chamber					
Tested and approved acc. to 1. BlmSchV (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			,		
Fuel types: up to maximal 16 possible					
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= Standard • = Option ■ = depending on basic package

ECOM-CL2 | BASIC PACKAGES AT CHOICE

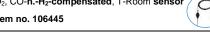
2, CO-H2-compensated, T-Room sensor

em no. 106443

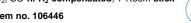




2, CO-n.-H2-compensated, T-Room sensor



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





GAS SENSOR | OPTION

O MEASUREMENT, 0-5000 PPM tem no. 106093)

DIFFERENTIAL PRESSURE | ACCESSORY

JBING, for differential pressure measurement 0-100 hPa), length approx. 1.5 m (4.9 ft.)

em no. 102884



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

tem no. 106070)

DATA OUTPUT / TRANSFER | ACCESSORY

ATA CABLE -> PC (USB)

For transfer of data from analyser memory to PC or Laptop





em no. 104003

T-ROOM MEASUREMENT | ALTERNATIVE

-ROOM PROBE PT 2000

Length 260 mm, with 3 m cable





SOOT MEASUREMENT | MANUAL

OOT PUMPT KIT

onsisting of each 1 manual soot, ump, soot comparison scale, be of piston grease, socket rench and 200 soot papers

ength: approx. 39 cm; weight: approx. 0.5 kg

em no. 50538

SAMPLING SYSTEM | ACCESSORY

ROBE EXTENSION PIECE

/ith flexible silicone centerpiece. lipped over probe tip by easurements at hardly ccessible, angled measurement peninas.



em no. 103492

emark: Because of the missing thermocouple within the xtension piece, no accurate gas temperature can be measred. The value which finally reaches the thermocouple of the obe has been influenced by the heat loss along the gas onvevance 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		

Recommended interval for check/maintenance: 1 year





- Robust, ergonomic carrying grip
- 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.
- Position-independent condensate trap with electronic condensate monitoring and fine dust filter
- 8 Backlit keypad for safe operation also by unfavourable lighting conditions
- Serial interface RS232 (behind tubing)
- 0 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



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.



MEASUREMENT TECHNOLOGY!





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





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 An exact NO_x measurement is of specific importance in this sector.



OIL & GAS Raw material production Transport



INDUSTRIAL APPLICATIONS Mining Foundries Cement factories



Cookery plants Chemical process heating Waste combustion, etc.



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