



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

SUPER COMPACT AND WITH JUST 25 X 18 CM **SMALLER THAN A DIN A4 PAPER SHEET** THE ECOM-B **O₂/CO ANALYSER** SETS ITS OWN STANDARDS. A SURPRISING AND THOUGHT-OUT DESIGN WHICH FUNDAMENTALLY DIFFERS FROM USUAL PRODUCTS AVAILABLE FOR THE COMBUSTION CONTROL AT SMALL-SIZED PLANTS.



ECOM-B COMPACT

- **HANDY COMPACT ANALYSER FOR SHORT-TIMED COMBUSTION CONTROLS 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**
- **BACKLIT DISPLAY & KEYPAD**
- **LITHIUM-ION BATTERY**
- **BLUETOOTH LE (OPTIONAL)**
- **ROBUST AND ULTRA-LIGHT ALUMINIUM PROTECTIVE HOUSING**



ecom-B
THE flue gas analyser in miniature size



Backside with magnets -
easy positioning on boiler casing



TECHNICAL DATA & FEATURES BASIC MODEL				✓ = 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	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				
Sampling probe (BB) unheated, Ø 8 mm, 150 mm (5.9 in.) with thermocouple				✓
3-chamber sampling tubing, approx. 1.5 m (4.9 ft.)				✓
Metal fixation cone	3			✓
T-Room sensor (PT 2000) L = 100 mm (3.9 in.), with cable approx. 1,1 m (3.6 ft.), cone				✓
DATA INDICATION / INPUT				
LCD display, 70 x 40 mm, backlit, graphic- and zoom capable, max. 8 lines	4			✓
Backlit keypad for safe operation also by unfavourable surrounding lighting	5			✓
DATA PROCESSING / PRINTOUT				
Internal memory for 300 measurements				✓
Integral sending diode for external, optional IR thermal printer	6			✓
Infrared thermal printer	7			●
Interface Bluetooth Low Energy (BLE)				●
Data exchange with ecom® PC software MiniDV, DAS.NT.2				✓
MEASUREMENT GAS PREPARATION				
Condensation trap with optical monitoring	8			✓
Stretchable, exchangeable particle- and humidity-absorbing pad	8			✓
POWER SUPPLY				
Mains power / Integral Li-Ion battery 6V / 3,3 Ah; external battery charger				✓
External battery charger, cable length approx. 3 m (10 ft.)				✓
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)				✓
Longlife sensors				✓
Integral Li-Ion- battery with long-lasting operation				✓
CONNECTION				
Serial interface for data transfer				✓
TRANSPORT				
Robust aluminium housing with swivelling and lockable protection lid	9			✓
Back-mounted magnets for instrument positioning on boiler covering				✓
Lateral slots for fixation of optional shoulder carrying strap				✓
Shoulder carrying strap	10			●
DIMENSIONS WEIGHT OTHERS				
Dimensions: W x H x D approx. 250 x 180 x 80 mm (9.8 x 7 x 3.1 in.) by closed protection lid				
W x H x D approx. 250 x 350 x 80 mm (9.8 x 13.7 x 3.1 in.) by unfolded protection lid				
Weight: approx. 2.1 kg (4.6 pd.) complete with sampling system				
ECOM-B ALTERNATIVE VERSION				
<ul style="list-style-type: none"> As 102802 but with CO non H₂-compensated Without fresh air purging With T-Room stick (instead of T-Room sensor) 				
Item no. 103277				
GAS SENSOR OPTION				
NO MEASUREMENT, 0-5000 PPM				
(Item no. 102819)				
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				
ECOM-P, INFRARED PRINTER 7				
For the documentation of the measured values				
<ul style="list-style-type: none"> Weight: approx. 350 g (12.3 oz.) Dim.: appr. 77 x 77,5 x 40 mm (3 x 3 x 1.5 in.) Delivered with 1 printer roll & batteries 				
Item no. 104630				
DATA CABLE -> PC (USB)				
<ul style="list-style-type: none"> For transfer of data stored in analyser memory into PC / Laptop Length approx. 1.5 m (4.9 in.) 				
Item no. 104003				
BLUETOOTH LOW ENERGY (option)				
Direct equipment. Transfer / recording of measurement data				
(Item no. 107017)				
T-ROOM MEASUREMENT ALTERNATIVE				
T-ROOM STICK PT 2000				
<ul style="list-style-type: none"> Dim.: approx. 28 x Ø 11 mm (1.1 x Ø 0.04 in.) Weight: approx. 5 g (0.17 oz.) 				
(Item no. 102888)				
T-ROOM PROBE PT 2000				
<ul style="list-style-type: none"> Length 260 mm (10 in.), 3 m (10 ft.) 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: 39 cm (15 in.); weight: approx. 0.5 kg (1.1 pd.)				
Item no. 50538				
CONSUMABLES FOR STOCK				
Condensate pads (pack of 5 pcs)		Item no. 102776		
Printer paper roll (for ecom-P)		Item no. 56181		

DIMENSIONS WEIGHT OTHERS	
Calibration certificate, issued after instrument calibration into calibration chamber	✓
Tested and approved acc. to 1. BImSchV (O ₂ /CO/Temp./Pressure) and EN 50379-2	✓
Aluminium housing with 10 years guarantee	✓
Admissible ambient temperature: +5... +40°C	
Admissible storage temperature: -20... +50°C	
Fuel types: 5 pre-programmed, up to 16 possible	
Recommended maintenance interval: 1 year	
Item no. basic model 102802	



WATCH AT VIDEO CLIPS ON



OUR **YOUTUBE** CHANNEL



AND EXPERIENCE UNIQUE



MEASUREMENT TECHNOLOGY!



TRANSPORT | ACCESSORY

SHOULDER CARRYING STRAP 10

- Material: webbing. Colour: black.
- With 2 length-adjustable tension chords
- Dimensions: approx. 164 x 2 cm (65 x 0.7 in.)



Item no. 102852

RUCKSACK / SLING PACK

- Material: tough fabrics. Colors: blue/black
- 1 main compartment, 1 slim side compartment, both with zippers
- Length-adjustable straps (Velcro)
- Dim.: appr. 37 x 47 x 12.5 cm (14.5 x 18.5 x 4.9 in.)
- Weight: approx. 0.3 kg (10.6 oz.)



Item no. 104662

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.



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 ascertains 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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