



Two powerful rear magnets for instrument positioning on metal surfaces...
... effortless release thanks to the detaching aid.



With length-adjustable holding strap. Can be fitted to the individual hand size thanks to Velcro strip.



View with mini gas cooler and T-Room stick – instead of T-Room sensor

ECOM-D

- **HANDY AND COMPACT ANALYSER FOR CONTROL MEASUREMENTS**
- **BASIC MODEL WITH O₂ / CO
LONGLIFE SENSORS – FURTHER
GAS SENSORS POSSIBLE**
- **CO-SENSOR OVERLOAD
PROTECTION WITHOUT
MEASUREMENT INTERRUPTION**
- **ERGONOMIC SAMPLING PROBE,
UNHEATED, LENGTH 250 MM**
- **3-CHAMBER TUBING 2.6 M**
- **HIGH-VALUE T-GAS PLUG**
- **BACKLIT DISPLAY & KEYPAD**
- **BLUETOOTH LOW ENERGY –BLE-**
- **LI-ION BATTERY**
- **ROBUST & ULTRALIGHT
PROTECTION HOUSING**



View ecom-D in full, optional equipment: thermal quick printer module, mini gas cooler and NOx amplifying tubing




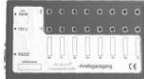
TECHNICAL DATA & FEATURES BASIC MODEL				✓ = Standard ● = Option
MEASUREMENT	RANGE	RESOLUTION	ACCURACY	*= Higher value prevails
Maximal amount of gas sensors				6
O ₂	0...21 %	0,01 vol.%	± 0,3 vol. %	✓
CO ppm (H ₂ -comp.)	0...4000 ppm °	1 ppm	± 20 ppm / 5% of meas. value*	✓
CO ppm (H ₂ -comp.)	0...10.000 ppm	1 ppm	± 20 ppm / 5% of meas. value*	●
CO ppm (n. H ₂ -comp.)	0...20.000 ppm	1 ppm	± 40 ppm / 10% of meas. value*	●
CO %	0...63.000 ppm	5 ppm	± 100 ppm / 10% of meas. value*	●
CO ₂ IR sensor	0...20%	0,1 vol.%	± 0,5 vol. % / 5% of meas. value*	●
NO	0...5000 ppm	1 ppm	± 5 ppm / 5% of meas. value*	●
NO ExtraLow	0...300 ppm	0,1 ppm	± 2 ppm / 5% of meas. value*	●
NO ₂	0...1000 ppm	1 ppm	± 5 ppm / 5% of meas. value* ⁽¹⁾	●
NO ₂ Low	0...100 ppm	0,1 ppm	± 5 ppm / 5% of meas. value* ⁽¹⁾	●
SO ₂	0...5000 ppm	1 ppm	± 5 ppm / 5% of meas. value* ⁽¹⁾	●
SO ₂ (Low CO)	0...5000 ppm	1 ppm	± 5 ppm / 5% of meas. value* ⁽¹⁾	●
SO ₂ Low	0...100 ppm	0,1 ppm	± 5 ppm / 5% of meas. value* ⁽¹⁾	●
H ₂	0...20.000 ppm	1 ppm	± 100 ppm or 5 % of measured value*	●
H ₂ S ppm	0...1000 ppm	1 ppm	± 10 ppm / 5% of meas. value*	●
CH ₄ IR sensor	0...5%	0,01 vol.%	± 0,3 vol.% / 3% of meas. value*	●
CH ₄ IR sensor	0...100%	0,1 vol.%	± 5% of measuring range end 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%	✓
Soot (manual)	0...9			●
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 measured (estimated NOx value) ⁽²⁾		= 1.05 NO		●
GAS SAMPLING GAS TEMPERATURE MEASUREMENT				
Sampling probe (SU), unheated 250 mm, Ø 10 mm, with thermocouple				1 ✓
Fixation cone with Teflon protective ring and stainless-steel tip				2 ✓
3-chamber tubing, length 2.6 m				3 ✓
High-value T-Gas plug				4 ✓
NOx sampling tubing with Teflon sleeve				●
COMBUSTION AIR SENSOR				
T-Room sensor (PT 2000) with cable ca. 3 m, magnet fixation & fixation cone				5 ✓
DATA INDICATION / INPUT				
LCD display 79 x 53 mm, 240 x 160 Dots, backlitged, graphic-/zoom-capable				6 ✓
Keypad with alphanumerical input function				7 ✓
DATA PRINTOUT				
Integral thermal quick-printer, paper width 58 mm				8 ●
External IR-printer 58 mm				9 ●
Address on protocol changeable by user (via keypad)				●
DATA PROCESSING				
Slot for MM card; data logger function				10 ✓
Bluetooth Low Energy (BLE) interface				✓
Wi-Fi interface (instead of BLE)				●
Data exchange with gratis ecom® PC software MiniDV, DAS.NT.2, DAS 5.01				✓
Disturbance diagnosis with ecom-AK via connection cable				✓
CONNECTIONS				
Charging connection at instrument				✓
Multi-function interface				10 ✓
USB interface for data transfer				10 ✓
Analog outputs				●

GAS SENSORS | OPTIONS

NO MEASUREMENT, 0-5000 PPM (Item no. 103934)	
NO MEASUREMENT, EXTRALOW 0-300 PPM (Item no. 108507)	
NO ₂ MEASUREMENT, 0-1000 PPM ⁽¹⁾ (Item no. 104112)	
NO ₂ MEASUREMENT, LOW 0-100 PPM ⁽¹⁾ (Item no. 104125)	
SO ₂ MEASUREMENT, 0-5000 PPM ⁽¹⁾ (Item no. 103767)	
SO ₂ MEASUREMENT, 0-5000 PPM (LOW CO) ⁽¹⁾ (Item no. 108550)	
SO ₂ MEASUREMENT, LOW 0-100 PPM ⁽¹⁾ (Item no. 107052)	
CO PPM ENHANCED RANGE, 0-10.000 PPM (Item no. 50102221)	
CO% MEASUREMENT, 0-63.000 PPM ⁽²⁾ (Item no. 103902)	
CO 0-20.000 PPM (NON H ₂ -COMP.), inst.of H ₂ -comp. (Item no. 104126)	
CO ₂ MEASUREMENT 0-20%, IR SENSOR (Item no. 104774)	
CO ₂ MEASUREMENT 0-100%, IR SENSOR (Item no. 108094)	
CH ₄ -MESSUNG 0-5%, IR SENSOR (Item no. 105094)	
CH ₄ -MESSUNG 0-100%, IR SENSOR, Biogas ⁽³⁾ (Item no. 107382)	
H ₂ MEASUREMENT 0-20.000 PPM (Item no. 107343)	
H ₂ S MEASUREMENT 0-1000 PPM (Item no. 104816)	
H ₂ S MEASUREMENT 0-5000 PPM, BIOGAS (Item no. 108093)	
⁽¹⁾ Gas cooler and NOx tubing recommended. ⁽²⁾ Additional filtering recommended. ⁽³⁾ Special tubing optionally available	
GAS PREPARATION OPTIONS	
CONDENSATE TRAP , with electronic monitoring – instead of condensate trap with optical control (Item no. 104626)	
MINI GAS COOLER , with electronic monitoring – instead of condensate trap with optical control (Item no. 103843)	
DIFFERENTIAL PRESSURE ACCESSORY	
TUBING , for ΔP measurement (± 0-100 hPa), Length approx. 1.5 m (4.9 in.) Item no. 104111	

* Measurement up to 10.000 ppm possible. However constant exposure impacts the sensor's lifespan.
⁽¹⁾ Guaranteed by use of NOx sampling tubing. | ⁽²⁾ When only NO; by NO+NO₂ = NOx measurement.

MEASUREMENT GAS PREPARATION		
Condensation trap with optical monitoring and moisture-absorbing pad	11	✓
Condensation trap with electronic monitoring		•
Electric mini gas cooler		•
POWER SUPPLY		
Mains / battery operation		✓
Mains charger, cable length approx. 3 m		✓
Battery charging via car cigarette lighter		•
Lithium-Ion battery 6 V / 3,3 Ah with long-operation time		✓
OPERATION SAFETY		
Temperature trend indication for stream core search		✓
Automatic self-test during calibration phase		✓
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)		✓
Electronic condensation monitoring		•
Longlife sensors		✓
Shock-protection thanks to rubber pieces at corners and front housing	12	✓
TRANSPORT		
Cordura® length-adjustable holding strap with Velcro strip	13	✓
Plastics transport case	14	•
Textile transport bag	15	•
Hardtop case made out of plastics	16	•
DIMENSIONS WEIGHT OTHERS		
Dimensions (W x H x D): approx. 220 x 125 x 85 mm		
Weight: approx. 2 kg		
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; max. 90 % rH, non-condensing		
Admissible storage temperature: -20... +50°C		
Fuel types: up to maximal 16 possible		
Recommended interval for check/maintenance: 1 year		
Item no. basic model 7103801		

DATA PRINTOUT OPTIONS	
WI-FI OPTION , instead of Bluetooth Low Energy	
Item no. 104121	
THERMAL QUICK-PRINTER MODULE 8	
INTEGRAL 58 mm paper width	
(Item no. 103840)	
ECOM-P, INFRARED PRINTER 9	
For the documentation of the measured values	
• Weight: approx. 350 g	
• Dim.: appr. 77 x 77,5 x 40 mm	
• Delivered with 1 printer roll & batteries	
Item no. 104630	
DATA RECORDING ACCESSORY	
MM CARD 2 GB	
Item no. 102469	
DATA TRANSFER ACCESSORY & OPTIONS	
DATA CABLE USB, ANALYSER -> PC	
• For data transfer to PC	
• Length approx. 2 m	
Item no. 55818	
8-CHANNEL ANALOG OUTPUT BOX (V / mA)	
Connection box for external logging/recording units	
• Dim.: approx. 165 x 85 x 30 mm (L x W x H)	
• Weight: approx. 0.3 kg	
• Incl. charger, cable to analyser, RS 232 cable, software	
Item no. 101769	
CONSUMABLES FOR STOCK	
Fine dust filter* (pack of 10 pcs)	Item no. 103903
Printer paper roll (module)	Item no. 50513
Printer paper roll (ecom-P)	Item no. 56181

* For gas cooler

Close-up view upper compartment:
MM card slot, USB & AUX connections,
connections pressure and 4Pa sensor.



Close-up view lateral connection panel: gas inlet, T-Gas, pressure.



TRANSPORT | ACCESSORIES

PLASTICS TRANSPORT CASE 14

- Colour: grey with blue folding locks and foam inserts
- Compartments for instrument, IR printer, charger
- Dim.: approx. 460 x 360 (incl. grip) x 110 mm
- Weight: approx. 1.25 kg

Item no. 104741 – Available as long as stocks last.



TEXTILE TRANSPORT BAG 15

- Document compartment in bag lid
- Storage compartments for analyser, IR printer, charger
- With shoulder carrying strap
- Dim.: appr. 64 x 40 x 12 cm
- Weight: approx. 1.7 kg

Item no. 106548



HARDTOP TRANSPORT CASE 16

Top comfort style (analyser operable out of case)

Large stowage space

- With inner holding device for ecom-D analyser
- Shock- and impact-absorbing corners
- Lockable (keys included)
- Inner padded grip in ergonomic design
- Corner stiffening made out of semi-hard plastics, shock-protective strip
- Dimensions: approx. 515 x 325 x 175 mm
- Weight: approx. 5.5 kg

Item no. 104141



SOOT MEASUREMENT | MANUAL

SOOT PUMP KIT

Consisting of each 1 manual soot, pump, soot comparison scale, tube of piston grease, socket wrench and 200 soot papers
Length: 39 cm; weight: approx. 0.5 kg

Item no. 50538



POWER SUPPLY | ACCESSORY

CAR CHARGING CABLE

Item no. 30000460



ΔT MEASUREMENT | ACCESSORIES

CONTACT SENSOR T-ROOM (PT2000)

- Range: -20 to 100°C
- Resolution: 0,1°C
- Measurement uncertainty: ± 1°C
- Suitable for pipe Ø up to 100 mm
- Cable length: 3 m



Item no. 12019

CONTACT SENSOR GAS (PT2000)

- Technical data as 12019



Item no. 106982

T-ROOM MEASUREMENT | ALTERNATIVE

T-ROOM-STICK PT 2000

- Dim.: approx. 28 x Ø 11 mm
- Weight: approx. 5 g



Item no. 102888

T-ROOM PROBE PT 2000

- Length 260 mm, 3 m cable



Item no. 104569

FLOW VELOCITY / DYNAMIC PRESSURE

INTERNAL HARDWARE UNIT – enables the measurement (item doesn't cover any probe of random type)

- Range: 0-50 m / sec
- Accuracy: ± 0,2 m/s or ± 1% of measurement value
- Resolution: 0.1 m/s

Data valid by use of Prandtl / Pitot probe (not included in package – available from specialized trade).

(Item no. 107201)

DYNAMIC PRESSURE PROBE*

- Range: up to 3 m / sec
- Accuracy: ± 2.5% of measuring range final value
- Length: approx. 250 mm (9.8 in.)
- Tubing/cable approx. 2.5 m (8.2 ft.) & fixation cone

Length = 250 mm (9.8 in.) **Item no. 104118**
Length = 1000 mm (39.3 in.) **Item no. 104560**
Length = 1500 mm (59 in.) **Item no. 105333**



* The offered item is **not** a Pitot tube.

GAS SAMPLING | ALTERNATIVE

PROBE TIPS SB/SU Ø 10 MM

Length 300 mm **(Item no. 100912)**
Length 350 mm **(Item no. 106832)**
Length 500 mm **(Item no. 100914)**

NOx TUBING (with ODU connection)

Length 3.5 m **(Item no. 103796)**
Length .5.0 m **(Item no. 104478)**

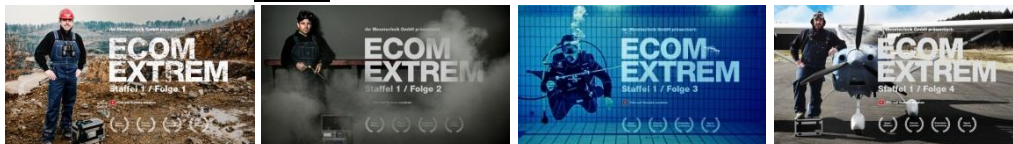


ecomMANDER APP

- 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

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