





ECOM GMBH | AM GROSSEN TEICH 2 | D-58640 ISERLOHN | WWW.ECOM.DE INDUSTRIAL MEASUREMENT KNOW-HOW FOR COMBUSTION CONTROL SINCE 1985

ECOM-J2KNpro EASY

COMPACT ANALYSER FOR THE CONTROL AND ADJUSTMENT OF MIDDLE- & LARGE-SIZED COMBUSTION PLANTS

- DETACHABLE RADIO REMOTE CONTROLLER UNIT WITH COLOUR DISPLAY
- BASIC VERSION WITH O2 AND CO LONGLIFE SENSORS – FURTHER GAS SENSORS POSSIBLE
- CO SENSOR OVERLOAD PROTECTION
 & FRESH AIR PURGE WITHOUT
 MEASUREMENT INTERRUPTION
- INTEGRAL SOOT MEASUREMENT
- ERGONOMIC GAS SAMPLING PROBE
 Ø 10 MM, LENGTH 300 MM WITH
 3-CHAMBER TUBING 3 M
- BRUSHLESS, LOW MAINTENANCE, HIGH-PERFORMING GAS PUMP FOR QUICK GAS CONVEYANCE.
- CONDENSATE TRAP WITH ELEC-TRONIC LEVEL MONITORING
 GAS COOLER OPTIONAL
- THERMAL QUICK-PRINTER 58 MM
- BACKLIT DISPLAY & KEYPAD
- HIGH-VALUE T-GAS PLUG
- BLUETOOTH LOW ENERGY (BLE)
- LITHIUM-ION BATTERY
- ROBUST AND ULTRA-LIGHT ALUMINIUM HOUSING
- ROBUST TRANSPORT CASE

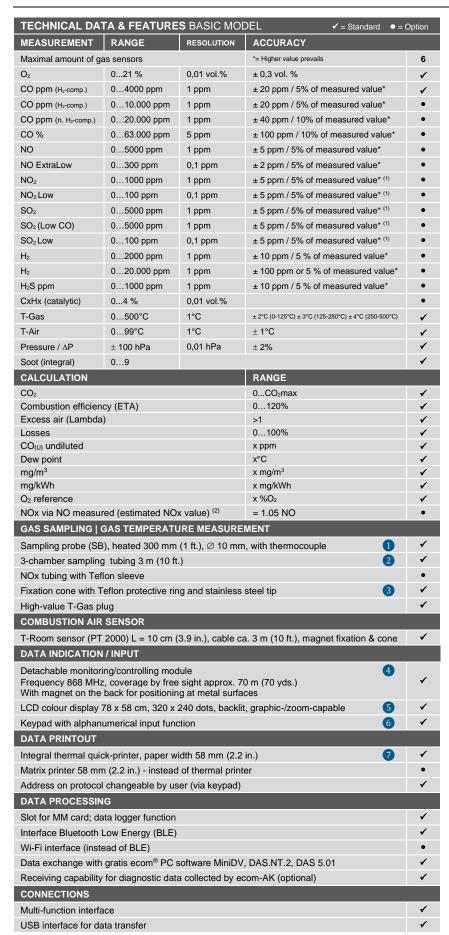


HEATING PROFESSIONAL - BURNER & BOILER INDUSTRY ECOM-J2KNpro EASY



ECOM-J2KNpro EASY | ALTERNATIVE

ecom-J2KNpro Easy, as 108001, but with GAS



COOLER and automatic condensation evacuation, instead of condensation trap Item no. 108002 ecom-J2KNpro Easy, as 108001, but with MATRIX PRINTER - INSTEAD OF THERMAL PRINTER Item no. 108003 ecom-J2KNpro Easy, as 108001, but with MATRIX PRINTER and GAS COOLER Item no. 108004 GAS SENSORS | OPTIONS NO MEASUREMENT, 0-5000 PPM (Item no. 101500) NO MEASUREMENT, EXTRALOW 0-300 PPM (Item no. 108505) NO2 MEASUREMENT, 0-1000 PPM (1) (Item no. 101502) NO2 MEASUREMENT, LOW 0-100 PPM (1) (Item no. 101503) SO₂ MEASUREMENT, 0-5000 PPM ⁽¹⁾ (Item no. 101504) SO2 MEASUREMENT, 0-5000 PPM (LOW CO) (1) (Item no. 108548) SO2 MEASUREMENT, LOW 0-100 PPM (1) (Item no. 107051) CO% MEASUREMENT, 0-63.000 PPM (2) (Item no. 101505) CO 0-20.000 PPM (NON H2-COMP.), instead of H2compensated (Item no. 108313) C_XH_Y 0-4% VOL, CATALYTIC (Item no. 101561) H₂ MEASUREMENT 0-2000 PPM (VIA CO SENSOR) (Item no. 101655) H₂ MEASUREMENT 0-20.000 PPM (Item no. 107433) - in case H₂S also ordered. (Item no. 107434) H₂S MEASUREMENT 0-1000 PPM (CH₄ FILTER) (Item no. 103401) ⁽¹⁾ Gas cooler and NOx tubing recommended (2) Additional filtering recommended GAS COOLER | OPTION GAS COOLER with automatic condensation evacuation, instead of condensation trap (Item no. 108132)

 $^{(1)}$ Guaranteed by use of NOx sampling tubing. | $^{(2)}$ When only NO; by NO+NO₂ = NOx measurement.

HEATING PROFESSIONAL – BURNER & BOILER INDUSTRY ECOM-J2KNpro EASY





Extra-quick gas transport (quick availability of measurement data)	
High-performing gas pump, brushless, low-maintenance	
Condensation trap with electronic monitoring and integral particle filter 8	
Gas cooler with electronic monitoring and automatic condensation evacuation	
POWER SUPPLY	
Mains power operation: power pack 230 V / 50 Hz~; Lithium-ion battery 7,2 V / 11,6 Ah	
Mains power operation. power pack 230 v 7 30 Hz~, Ethildhillon battery 7,2 v 7 H,0 An Mains power cord length approx. 2.3 m (7.5 ft.)	
Helix mains power cord (instead of straight style)	
Lithium-ion battery 7,2 V / 9 Ah with long-operation time	
OPERATION SAFETY	
Heated gas channel plate for avoidance of moisture formation	
Internal air pressure sensor (range 300 to 1100 hPa)	
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)	•
Flow meter for optical control of pump performance	•
Electronic condensation monitoring	1
Longlife sensors	
Separate LCD display for monitoring & indication of operation stands of several elements like pump, probe heating, radio transfer quality as well as display of error messages. Electronic flow meter and monitoring. Automatic instrument switch-off by decreasing & insufficient pump performance.	
Toxic pollutants filter (NOx/SO2) for CO sensor	
TRANSPORT	
Robust aluminium-framed transport case	
Comfort shoulder carrying strap	•
Connection pieces for easy docking of optional undercase	•
Undercase	
Alternative case size	
DIMENSIONS WEIGHT OTHERS	
Dimensions (W x H x D): approx. 440 x 315 x 250 mm (17.3 x 12.4 x 9.8 in.)	
Weight: approx. 12 kg (26.4 pd.)	
Calibration certificate, issued after instrument calibration into calibration chamber	
Tested and approved acc. to 1. BImSchV (O₂/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	





SAMPLING SYSTEM | ALTERNATIVE

GRIP, PROBE TIP SB Ø 10 MM, CONE

LENGTH 350 MM (1.15 FT) Item no. 107513 (1)

LENGTH 500 MM (1.6 FT) Item no. 107515 (1)

LENGTH 700 MM (2.3 FT) Item no. 107516 (1)

LENGTH 1000 MM (3.2 FT) Item no. 107517 (1)

LENGTH 1500 MM (4.9 FT.) Item no. 107518 (1)

LENGTH 750 MM (2.4 FT.) Item no. 101183 (1) LENGTH 1000 MM (3.2 FT.) Item no. 30001303 (1)

LENGTH 1500 MM (4.9 FT.) Item no. 101608 (1)

NO_X TUBING, 3-CHAMBER, WITH ODU PLUG ⁽¹⁾

LENGTH 3,5 M (11.5 FT.) Item no. 106931 ⁽¹⁾

Item no. 106914 (1)

Item no. 106915 (1)

Item no. 106932 (1)

Item no. 107362 (1)

HIGH-TEMPERATURE PROBE TIP Ø 10 MM

Application range up to 1100°C

LENGTH 5,0 M (16.4 FT.)

LENGTH 10,0 M (32.8 FT.)

LENGTH 5,0 M (16.4 FT.)

LENGTH 10,0 M (16.4 FT.)

PROTECTION BAG

Material: fabrics

Item no. 55991

(33.8 x 2.9 x 1.1 in.) • Weight: approx. 350 g (12.3 oz.)

OR ALTERNATIVELY:

Material: fabrics

Item no. 108236

 Flexible tubing Thermocouple

· Length 400 mm

openings

(39.7 x 2.9 x 1.1 in.)

SAMPLING SYSTEM | ACCESSORIES

• Dimensions: approx. 86 x 7.5 x 3 cm

For probe tips (all types) up to 750 mm (2.4 ft.)

For probe tips (all types) up to 1000 mm (3 ft.)

• Dimensions: approx. 102 x 7.5 x 3 cm

With high temperature cone Ø 10 mm

3-CHAMBER TUBING WITH ODU PLUG

HEATING PROFESSIONAL - BURNER & BOILER INDUSTRY ECOM-J2KNpro EASY

DATA RECORDING / DATA TRANSFER

MM CARD 2 GB

Item no. 102469

DATA CABLE USB, ANALYSER -> PC

- · For data transfer to PC
- Length approx. 2 m (6.5 ft.)

Item no. 55818

WI-FI OPTION, instead of Bluetooth Lo Energy (Item no. 108193)

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

AT 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 (3.9 in.)
- Cable length: 3 m (10 ft.)

Item no. 12019

CONTACT SENSOR T-GAS (NI/CRNI)

- Range: -20 to 100°C
- Resolution: 0,1°C
- Measurement uncertainty: ± 1°C
- Suitable for pipe Ø up to 100 mm (3.9 in.)
- Cable length: 3 m (10 ft.)

Item no. 106982

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

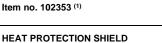
Data valid by use of Prandtl / Pitot probe (not included in package - available from specialized trade).

(Item no. 108202)

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
- * The offered item is not a Pitot tube.

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



· With fixation cone, special version

• For probe tips SB/SU Ø 10 mm

- Material: AIMg³. Hole Ø 10 mm, with knurled screw
- Dimensions: approx. 195 x 120 x 1.5 mm
- (7.6 x 4.7 x 0.05 in.)
- Weight: approx. 90 g (3.1 oz.)

Item no. 101527

⁽¹⁾ Because of its length this item is not storable in the standard case. For transport purposes, it must be detached and stowed separately















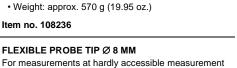












HEATING PROFESSIONAL - BURNER & BOILER INDUSTRY ECOM-J2KNpro EASY

TRANSPORT | ACCESSORIES & ALTERNATIVES

UNDERCASE

Additional stowage for accessories/small parts

- Dimensions: approx. 440 x 100 x 250 mm
- (17.3 x 3.9 x 10 in.) • Weight: approx. 1.0 kg (2.2 pd.)
- With fixation for trolley (item no. 101274)

Item no. 106720

TRANSPORT CASE, LARGER VERSION (TYPE EXPERT, IN. INS)

- · Instead of standard case
- Dim. (W x D x H): approx. 510 x 250 x 330 mm (20 x 9.8 x 12.9 in.)
- Weight: empty, approx. 4.0 kg (8.8 pd.)

(Item no. 108802)

UNDERCASE FOR TRANSPORT CASE TYPE EXPERT, IN, INS

- Additional stowage for accessories/small parts
- Dim. (W x D x H): approx. 510 x 250 x 130 mm (20 x 9.8 x 5.1 in.)
- Weight: approx. 1.6 kg (3.5 pd.)
- With fixation fro trolley (item no. 101274)

Item no. 106721

TROLLEY

For fixation at undercases of the J2KNpro range

Item no. 101274

INDOOR CASE

Enables the instrument operation also by closed lid (max. 1 hour; surrounding temperature max. 45°C).

- · With swivelling carrying bow
- · Without counter-parts for undercase fixation · Lateral opening with pivoting flap for dust
- protection when instrument at rest
- Opening suitable for 3-chamber or NOx tubing

Not suitable for outdoor applications.

(Item no. 108803)



🄯 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
- TATA 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 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.

N	-
112	Ik
\mathbf{S}	S.
TI	VIE

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.

6	 >
6	
>	 Ì

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.

1	
	+ 🕑
	+ 🕑
	+ 🕑

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. WATCH AT VIDEO CLIPS ON











e e e e e

FOCUSED APPLICATION RESPECTIVELY USER PROFILE ECOM® FLUE GAS ANALYSERS





COGENERATION Companies manufacturing resp. maintaining engines or combined heat and power plants. An exact NO_x measurement is of specific importance in this sector.



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.



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: www.ecom.de