







ECOM-J2KNpro *EXPERT*

- PROFI MEASUREMENT PACKAGE FOR THE CONTROL & ADJUSTMENT OF MIDDLE- AND LARGE-SIZED COMBUSTION PLANTS
- DETACHABLE RADIO REMOTE CONTROLLER UNIT WITH COLOUR DISPLAY
- FITTED WITH O₂, CO, NO, NO₂ LONGLIFE GAS SENSORS
- CO SENSOR OVERLOAD PROTECTION
 & FRESH AIR PURGE WITHOUT
 MEASUREMENT INTERRUPTION
- INTEGRAL SOOT MEASUREMENT
- HEATED GAS SAMPLING PROBE Ø 10 MM, LENGTH 300 MM WITH 3-CHAMBER NOX TUBING 3.5 M
- BRUSHLESS, LOW MAINTENANCE, HIGH-PERFORMING GAS PUMP FOR QUICK GAS CONVEYANCE.
- GAS COOLER WITH ELECRONIC LEVEL MONITORING & AUTOMATIC CONDENSATE EVACUATION
- THERMAL QUICK-PRINTER 58 MM
- BLUETOOTH LOW ENERGY -BLE-
- BACKLIT DISPLAY & KEYPAD
- HIGH-VALUE T-GAS PLUG
- LITHIUM-ION BATTERY
- ROBUST AND ULTRALIGHT ALUMINIUM HOUSING
- ROBUST TRANSPORT CASE, ALUMINIUM-FRAMED – XL SIZE



HEATING SPECIALIST – BURNER & BOILER INDUSTRY **ECOM-J2KNpro** *EXPERT*





TECHNICAL DA	TA & FEATURE	S BASIC MOI	DEL ✓ = Standard • =	Option
MEASUREMENT	RANGE	RESOLUTION	ACCURACY	
Maximal amount of g	as sensors		*= Higher value prevails	6
O ₂	021 %	0,01 vol.%	± 0,3 vol. %	✓
CO ppm (H ₂ -comp.)	04000 ppm °	1 ppm	± 20 ppm / 5% measured value*	✓
CO ppm (H ₂ -comp.)	010.000 ppm	1 ppm	± 20 ppm / 5% measured value*	•
NO	05000 ppm	1 ppm	± 5 ppm / 5% measured value*	✓
NO ₂	01000 ppm	1 ppm	± 5 ppm / 5% measured value*	✓
T-Gas	0500°C	1°C	± 2°C (0-125°C) ± 3°C (125-250°C) ± 4°C (250-500°C)	1
T-Air	099°C	1°C	± 1°C	1
Pressure / ΔP	± 100 hPa	0,01 hPa	± 2%	✓
Soot (integral)	09			✓
CALCULATION			RANGE	
CO ₂			0CO ₂ max	1
Combustion efficience	v (ETA)		0120%	1
Excess air (Lambda)	• • •		>1	· /
Losses			0100%	· /
CO(U) undiluted			x ppm	1
Dew point			x°C	∀
mg/m³			x mg/m ³	·
mg/kWh			x mg/kWh	·
O ₂ reference			x %O ₂	√
GAS SAMPLING	GAS TEMPERATI	IRE MEASURE		*
Sampling probe (SI	,.		·	√
NOx sampling tub	_			
Fixation cone with 1	·	ng and stainless	-steel tip 3	√
High-value T-Gas p	-			V
COMBUSTION AIR	R SENSOR			
T-Room sensor (PT	2000) length 10 c	m, cable ca. 3 m	n, magnet fixation, cone	✓
DATA INDICATION	I / INPUT			
Detachable monitor Frequency 868 MH With magnet on the	z, coverage by free	sight approx. 7		✓
LCD colour display	78 x 58 cm, 320 x	240 dots, backli	t, graphic-/zoom-capable 5	✓
Keypad with alphar	numerical input fund	ction	6	✓
DATA PRINTOUT				
Integral thermal qui	ck-printer, paper w	idth 58 mm	7	✓
Matrix printer 58 mi	m - instead of thern	nal printer		•
Address on protoco	l changeable by us	ser (via keypad)		✓
DATA PROCESSIN	NG			
Slot for MM card; d	ata logger function			✓
Interface Bluetooth	Low Energy (BLE)			✓
Wi-Fi interface (instead of BLE)				•
Data exchange with	gratis ecom® PC	software MiniDV	, DAS.NT.2, DAS 5.01	✓
Receiving capability	for diagnostic dat	a collected by ed	com-AK (optional)	✓
CONNECTIONS				
Multi-function interf	ace			1
USB interface for d				1
MEASUREMENT O		DN .		
Extra-quick gas trai			ement data)	✓
Extra-quick gas trai High performing ga		•	·	∀
0				∀
Gas cooler with electronic monitoring and automatic condensation evacuation Soot filter for additional dust particle filtering				
	onai dust particie fil	telling		✓
POWER SUPPLY				
•		•	/ 11,6 Ah with long operation time	✓
Mains power cord length approx. 2.3 m				
Helix power cable (instead of standard	straight cord st	yle)	•
OPERATION SAFE	TY			
Heated gas channe	l plate for avoidance	ce of moisture fo	rmation	✓
Internal air pressure	e sensor (range 30	0 to 1100 hPa)		✓

 $[\]label{lem:measurement} \mbox{Measurement up to 10.000 ppm possible. However constant exposure impacts the sensor's lifespan.}$

PRINTER | OPTION

MATRIX PRINTER (instead of thermal printer) For a long-lasting and non-fading documentation of the measurement values

(Item no. 108172)

DATA RECORDING | ACCESSORY

MM CARD 2 GB

Item no. 102469



DATA TRANSFER | ACCESSORIES & OPTION

DATA CABLE USB, ANALYSER -> PC

- For data transfer to PC
- · Length approx. 2 m

Item no. 55818



WI-FI OPTION, instead of Bluetooth Low Energy Item no. 107203

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

RADIO CONNECTION | ACCESSORY - OPTION

CONNECTION CABLE BASIC/CONTROL MODULE

- · In case of slight disturbed radio transfer
- Length approx. 10 m

Item no. 55604



RADIO TRANSFER AMPLIFICATION

Recommended by difficult or heavily disturbed radio transfer

· Optional foldable antenna at basic module, direct equipment

Length 1,25 m - stretched approx. 5 m.

(Item no. 108207)



POWER SUPPLY | OPTION

HELIX MAINS POWER CABLE (inst. straight style) By longer distance sampling point to power source.

(Item no. 104461)

,	•				
SAMPLING SYSTEM ALTERNATIVE					
GRIP, PROBE TIP SB Ø 10 MM, CONE					
350 MM Item no. 107513 ⁽¹⁾	LENGTH				
500 MM Item no. 107515 ⁽¹⁾	LENGTH				
700 MM ltem no. 107516 ⁽¹⁾	LENGTH				
000 MM ltem no. 107517 ⁽¹⁾	LENGTH 1				
500 MM ltem no. 107518 ⁽¹⁾	LENGTH 1				
HIGH TEMPERATURE TIP Ø 10 MM Application range up to 1100°C With high temperature fixation cone Ø 10 mm					

Item no. 101183 ⁽¹⁾
Item no. 30001303 ⁽¹⁾
Item no. 101608 ⁽¹⁾

NO_X SAMPLING TUBING, 3-CH, WITH ODU PLUG

LENGTH 5,0 M	Item no. 106932 (1)
LENGTH 10,0 M	Item no. 107362 (1)

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



Temperature trend indication for stream core search





OPERATION SAFETY		
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	✓	
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/SO ₂) for CO sensor	✓	
TRANSPORT		
Robust aluminium-framed transport case in XL size		
Comfort shoulder carrying strap		
Connection pieces for easy docking of optional undercase	✓	
Undercase	•	
Trolley	•	
DIMENSIONS WEIGHT OTHERS		
Dimensions (W x H x D): approx. 510 x 330 x 250 mm		
Weight: approx. 14 kg		
Calibration certificate, issued after instrument calibration into calibration chamber	✓	
Tested and approved acc. to 1. BlmSchV (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		

SAMPLING SYSTEM | ACCESSORIES

HEAT PROTECTION SHIELD

- For probe tips SB/SU Ø 10 mm
- Material: AlMg3. Hole Ø 10 mm, with knurled screw
- Dimensions: approx. 195 x 120 x 1.5 mm
 Weight: approx. 90 g

Item no. 101527



PROTECTION BAG

For probe tips (all types) up to 750 mm

- Material: fabrics
- Dimensions: approx. 86 x 7.5 x 3 cm
- Weight: approx. 350 g

Item no. 55991

Alternatively, for probe tips up to 1000 mm:

- Dimensions: approx. 102 x 7.5 x 3 cm Weight: approx. 570 g

Item no. 108236

CONSUMABLES FOR STOCK	
Fine dust filter (pack of 10 pcs)	Item no. 100568
Thermal printer paper roll	Item no. 50513
Soot filter paper (pack of 200 pcs)	Item no. 50515
NOx/SO ₂ filter, large	Item no. 52169





HEATING SPECIALIST – BURNER & BOILER INDUSTRY **ECOM-J2KNpro** EXPERT





TRANSPORT | ACCESSORIES & OPTION

UNDERCASE

Additional stowage for accessories/small parts

- Dimensions: approx. 510 x 130 x 250 mm
 Weight: approx. 1.6 kg
- With fixation for trolley (item no. 101274)

Item no. 101381

TROLLEY

For fixation at undercase

Item no. 101274

TRANSPORT CASE SC I

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)







∆T MEASUREMENT | ACCESSORIES

CONTACT SENSOR T-ROOM (PT2000)

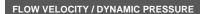
- Range: -20 to 100°C
- Resolution: 0,1°C
- Measurement uncertainty: ± 1°C
- Suitable for pipe Ø up to 100 mm
- Cable length: 3 m

Item no. 12019

CONTACT SENSOR 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
- · Cable length: 3 m

Item no. 106982



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

LENGTH = 250 mm

LENGTH = 1000 mm

LENGTH = 1500 mm

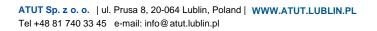
- Tubing/cable approx. 2.5 m and fixation cone
- * The offered item is **not** a Pitot tube.

















8 REASONS FOR A HEATING PROFESSIONAL TO PERFORM THE DAILY WORK WITH AN ECOM ANALYSER:

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.

STABLE - SHOCK-PROOF.

Increased protection for safe transport / unintentional fall. All-round protection provided by robust transport case resp. protective housing

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.

COOL - DRIED SAMPLED GAS & INCREASED READING ACCURACY. **6**

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.

BROAD REACH - WIRELESS COMMUNICATION.

Product fitted with radio module or Bluetooth Low Energy for wireless, unerring data transfer.

LOSS-FREE - SWIFT GAS TRANSPORT, NO 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

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.

COMPLETE - ALL INCLUSIVE - PRODUCT READY-TO-MEASURE.

The product is completely ready to measure and doesn't require any further components to be operated. Respectively a kit of essential consumables is covered in the delivery package, thus avoiding having to quit a measurement process due to a missing spare filter or else small part.





SIMPLE & MODERN DATA MONITORING & TRANSFER WITH THE APP & ECOMMANDER

MEASURE | DISPLAY | RECORD | TRANSFER









2. Activate pairing via wireless connection | Select instrument | Done!



3. Live display of measurement values



3. Spot and punctual measurements



3. Intuitive menu



3. Data of combustion plant



3. Customer data

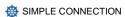


3. Data related to service engineer



4. Creation of measurement protocols in practical PDF format

⊕ ECOMMANDER APP



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



OII & GAS Raw material production Transport Processing



INDUSTRIAL APPLICATIONS Mining Foundries Cement factories Cookery plants Chemical process heating

THE SHORT VIDEOS ON OUR YouTube CHANNEL OUTLINE IN ENTERTAINING MANNER THE UNIQUE SELLING POINTS OF









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