







ATUT Sp. z o. o. | ul. Prusa 8, 20-064 Lublin, Poland | **WWW.ATUT.LUBLIN.PL** Tel +48 81 740 33 45 e-mail: info@ atut.lublin.pl

ECOM-J2KNpro *ENGINE*

- PROFESSIONAL PACKAGE FOR LONG-LASTING MEASUREMENTS AT COGENERATION PLANTS
- DETACHABLE RADIO CONTROL
 MODULE WITH COLOUR DISPLAY
- FITTED WITH O₂, CO, NO, NO₂, LONGLIFE GAS SENSORS
- OPTIONAL PACKAGE H₂S / CH₄ FOR BIOGAS MEASUREMENT
- CO SENSOR OVERLOAD PROTECTION
 & FRESH AIR PURGE WITHOUT
 MEASUREMENT INTERRUPTION
- UNHEATED GAS SAMPLING PROBE
 Ø 8 MM, LENGTH 350 MM WITH NOX
 2-CHAMBER TUBING 3.5 M
 FIXATION CONE WITH MINI HEAT
 PROTECTION SHIELD
- T-ROOM STICK (INS. T-SENSOR)
- BRUSHLESS, LOW MAINTENANCE, HIGH-PERFORMING GAS PUMP FOR QUICK GAS CONVEYANCE.
- GAS COOLER WITH ELECTRONIC 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
- HELIX POWER CORD
- INCL. MM CARD
- INCL. USB DATA CABLE
- ROBUST AND ULTRALIGHT ALUMINIUM HOUSING
- ROBUST TRANSPORT CASE, ALUMINIUM-FRAMED – XL SIZE





	TA & FEATURE	S BASIC MOI	DEL ✓ = Standard • =	Optior
MEASUREMENT	RANGE	RESOLUTION	ACCURACY	
Maximal amount of g	gas 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*	1
NO	05000 ppm	1 ppm	± 5 ppm / 5% measured value*	1
NO ₂	01000 ppm	1 ppm	± 5 ppm / 5% measured value*	1
SO ₂	05000 ppm	1 ppm	± 5 ppm / 5% of meas. value*	•
SO ₂ (Low CO)	05000 ppm	1 ppm	± 5 ppm / 5% of measured value* (1)	
CxHx (catalytic)	04 %	0.01 vol.%	- С ррим сле стиностино синос	
H ₂ S	05000 ppm	1 ppm	± 50 ppm / 5% meas. value*	
CH ₄	0100% vol.	0.1 vol.%	± 5% of meas. range end 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%	✓
CALCULATION			RANGE	
CO ₂			0CO₂max	✓
Combustion efficier	ncy (ETA)		0120%	✓
Excess air (Lambda	a)		>1	✓
Losses			0100%	1
CO _(U) undiluted			x ppm	1
Dew point			x°C	1
mg/m ³			x mg/m³	1
mg/kWh			x mg/kWh	
O ₂ reference			x %O ₂	· /
GAS SAMPLING	CAS TEMPEDATI	IDE MEASURE		
Sampling probe (St				1
NOx sampling tubin	_			√
		ng and mini hea	t protection shield 3	✓
High-value T-Gas	piug		4	✓
High-value T-Gas COMBUSTION AIR			4	V
			5	✓
COMBUSTION AIR	R SENSOR			
COMBUSTION AIR T-Room stick DATA INDICATION	R SENSOR	dule		
COMBUSTION AIR T-Room stick DATA INDICATION Detachable monitor Frequency 868 MH:	R SENSOR N / INPUT ring/controlling mod z, coverage by free	e sight approx. 7	5 0 m	
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 $^{^{\}circ}$ Measurement up to 10.000 ppm possible. However constant exposure impacts the sensor's lifespan.

ECOM-J2KNPRO ENGINE | ALTERNATIVE

As 7108007, but with NO ExtraLow (0-300 ppm) and Low NO $_2$ (0-100 ppm) – instead of NO (0-5000 ppm) and NO $_2$ (0-1000 ppm)

Item no. 1018625

GAS SENSORS | OPTIONS

SO₂ MEASUREMENT, 0-5000 PPM

(Item no. 101504)

Mainly needed by measurement at oil engines.

 SO_2 MEASUREMENT, 0-5000 PPM (LOW CO) $^{(1)}$

(Item no. 108548)

C_XH_Y 0-4% VOL, CATALYTIC

(Item no. 101561)

Mainly needed by measurement at wood carburetor engines.

BIOGAS ANALYSIS | OPTIONAL PACKAGE

See last page.

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

(Item no. 108207)



DATA TRANSFER | OPTION

WI-FI OPTION, instead of Bluetooth Low Energy

(Item no. 108193)

TRANSPORT | ACCESSORIES

UNDERCASE

Additional stowage for accessories/small parts

- Dimensions: approx. 510 x 130 x 250 mm (20 x 5.1 x 10 in.)
- Weight: approx. 1.6 kg (3.5 pd.)
- Weight, approx. 1.6 kg (3.5 pd.)
 With fixation for trolley (item no. 101274)

Item no. 106720



TROLLEY

For fixation at undercase

Item no. 101274



POWER SUPPLY | OPTION

HELIX MAINS POWER CABLE (inst. straight style) By longer distance sampling point to power source. Length 1,25 m – stretched approx. 5 m.

(Item no. 104461)

SAMPLING SYSTEM | ALTERNATIVE

HIGH TEMPERATURE TIP Ø 10 MM

Application range up to 1100°C With high temperature cone Ø 10 mm

LENGTH 750 MM | Item no. 101183 (1)

LENGTH 1000 MM | Item no. 30001303 (1)

LENGTH 1500 MM | Item no. 101608 (1)

NO_X TUBING, 2-CHAMBER, WITH ODU PLUG

LENGTH 5,0 M | Item no. 30002329 (1)

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

COGENERATION (COMBINED HEAT & POWER) ECOM-J2KNpro ENGINE





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	✓		
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, XL size			
Comfort shoulder carrying strap			
Connection pieces for easy docking of optional undercase			
7			
Undercase	•		
, , , , , , , , , , , , , , , , , , , ,	•		
Undercase	•		
Undercase Trolley	•		
Undercase Trolley DIMENSIONS WEIGHT OTHERS	•		
Undercase Trolley DIMENSIONS WEIGHT OTHERS Dimensions (W x H x D): approx. 510 x 330 x 250 mm	•		
Undercase Trolley DIMENSIONS WEIGHT OTHERS Dimensions (W x H x D): approx. 510 x 330 x 250 mm Weight: approx. 14 kg	• •		
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	• •		
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. BImSchV (O ₂ /CO/Temp./Pressure) and EN 50379-2	• •		
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. BImSchV (O ₂ /CO/Temp./Pressure) and EN 50379-2 Aluminium housing with 10 years guarantee	· · · · · · · · · · · · · · · · · · ·		
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. 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	• •		
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. 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	• •		

SAMPLING SYSTEM | ACCESSORIES

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
Soot filter	Item no. 50508
NOx/SO ₂ filter, large	Item no. 52169









MEASUREMENT OF BIOGAS | APPLICATION FIELD

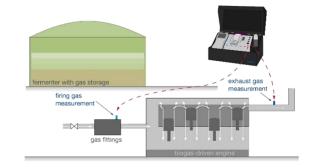
COMPLETE MEASURING PACKAGE CONSISTING OF:

- H₂S sensor, electrochemical, measuring range 0-5000 ppm
- CH₄ sensor, infrared, measuring range 0-100%
- Viton sampling tubing, length approx. 3 m (10 ft.)

Item no. 106755|106756

COMPONENTS OTHERWISE AVAILABLE SEPARATELY:

H₂S sensor, 0-5000 ppm Item no. 108091
 CH₄ sensor, 0-100% Item No. 107342
 Viton tubing, approx. 3 m Item no. 106756



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.

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.

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.



OIL & GAS Raw material production Transport Processing



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









FIND YOUR ECOM® SALES POINT AND DEALER ON:

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THE PORTABLE ECOM® FLUE GAS ANALYSERS – SIMPLY VIEW THEM WHILE CLICKING ON THE ABOVE LINK!