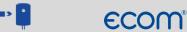
New Version 2018!



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) OR WIFI MODULE OPTIONAL
- TITHIUM-ION BATTERY
- ROBUST AND ULTRA-LIGHT ALUMINIUM HOUSING
- ROBUST TRANSPORT CASE

CO

FLUE GAS ANALYSIS

HEATING PROFESSIONAL - BURNER & BOILER INDUSTRY ECOM-J2KNpro EASY



ØØ% ∂Q*\$SB

✓ = Standard● = Option

MEASUREMENT	RANGE	RESOLUTION	ACCURACY	
Maximal amount of ga			*= Higher value prevails	6
O_2	021 %	0,1 vol.%	± 0.3 vol. %	v √
CO ppm (H ₂ -comp.)	04000 ppm	1 ppm	± 20 ppm / 5% of measured value*	• √
CO ppm (H ₂ -comp.)	010.000 ppm	1 ppm	± 20 ppm / 5% of measured value*	•
CO ppm (n. H ₂ -comp.)	020.000 ppm	1 ppm	± 40 ppm / 10% of measured value*	•
CO %	063.000 ppm	5 ppm	± 100 ppm / 10% of measured value*	٠
NO	05000 ppm	1 ppm	± 5 ppm / 5% of measured value*	٠
NO Low	0500 ppm	0,1 ppm	± 5 ppm / 5% of measured value*	•
NO ₂	01000 ppm	1 ppm	\pm 5 ppm / 5% of measured value* ⁽¹⁾	•
NO ₂ Low	0100 ppm	0,1 ppm	\pm 5 ppm / 5% of measured value* ⁽¹⁾	•
SO ₂	05000 ppm	1 ppm	\pm 5 ppm / 5% of measured value* ⁽¹⁾	٠
SO ₂ Low	0100 ppm	0,1 ppm	\pm 5 ppm / 5% of measured value* ⁽¹⁾	•
H ₂	02000 ppm	1 ppm	± 10 ppm / 5 % of measured value*	٠
H ₂	020.000 ppm	1 ppm	± 100 ppm or 5 % of measured value*	•
H ₂ S ppm	01000 ppm	1 ppm	± 10 ppm / 5 % of measured value*	•
CxHx (catalytic)	04 %	0,01 vol.%		٠
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%	• •
Soot (integral)	09	.,		1
			RANGE	
CO ₂			0CO ₂ max	√
Combustion efficien	cy (ETA)		0120%	
Excess air (Lambda	• • •		>1	1
Losses			0100%	 ✓
$CO_{(U)}$ undiluted			x ppm	✓
Dew point			x°C	✓
mg/m ³			x mg/m ³	√ √
mg/kWh O ₂ reference			x mg/kWh x %O ₂	
GAS SAMPLING (GAS TEMPERATI	JRE MEASURE		·
Sampling probe (SB		(1 ff) (2 10 mr)	n with thermocouple 1	- √
			n, with thermocouple	√ √
3-chamber sampling	g tubing 3 m (10 ft		n, with thermocouple 1	✓ ✓ ●
3-chamber sampling NOx tubing with Tef	tubing 3 m (10 ft Ion sleeve	.)	0	
3-chamber sampling NOx tubing with Tef Fixation cone with T	tubing 3 m (10 ft lon sleeve fellon protective rin	.)	0	
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p	y tubing 3 m (10 ft lon sleeve fellon protective rir plug	.)	0	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR	y tubing 3 m (10 ft lon sleeve eflon protective rir olug SENSOR	.) ng and stainless	2 steel tip 3	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT	y tubing 3 m (10 ft lon sleeve eflon protective rir olug SENSOR 2000) L = 10 cm (.) ng and stainless	0	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION	y tubing 3 m (10 ft lon sleeve ieflon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT	.) ng and stainless 3.9 in.), cable c	Image: steel tip 3 a. 3 m (10 ft.), magnet fixation & cone	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MHz	g tubing 3 m (10 ft lon sleeve eflon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mod c, coverage by free	.) ng and stainless 3.9 in.), cable c dule s sight approx.	2 steel tip 3 a. 3 m (10 ft.), magnet fixation & cone 70 m (70 yds.)	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MHz With magnet on the	g tubing 3 m (10 ft lon sleeve eflon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mod c, coverage by free back for positionir	.) ng and stainless 3.9 in.), cable c dule 9 sight <mark>approx.</mark> g at metal surfa	2 steel tip 3 a. 3 m (10 ft.), magnet fixation & cone 70 m (70 yds.) aces	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MHz With magnet on the LCD colour display	y tubing 3 m (10 ft lon sleeve ieflon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mod c, coverage by free back for positionir 78 x 58 cm, 320 x	.) ag and stainless 3.9 in.), cable c dule s sight approx. ag at metal surfa 240 dots, backl	2 steel tip 3 a. 3 m (10 ft.), magnet fixation & cone 70 m (70 yds.) aces it, graphic-/zoom-capable 5	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MHz With magnet on the LCD colour display Keypad with alphan	y tubing 3 m (10 ft lon sleeve ieflon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mod c, coverage by free back for positionir 78 x 58 cm, 320 x	.) ag and stainless 3.9 in.), cable c dule s sight approx. ag at metal surfa 240 dots, backl	2 steel tip 3 a. 3 m (10 ft.), magnet fixation & cone 70 m (70 yds.) aces	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MHz With magnet on the LCD colour display Keypad with alphan DATA PRINTOUT	g tubing 3 m (10 ft lon sleeve reflon protective rin olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling moot c, coverage by free back for positionin 78 x 58 cm, 320 x umerical input fund	.) ag and stainless 3.9 in.), cable c dule sight approx . g at metal surfa 240 dots, backl ction	2 a. steel tip 3 a. 3 m (10 ft.), magnet fixation & cone 70 m (70 yds.) aces it, graphic-/zoom-capable 5 6	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MHz With magnet on the LCD colour display Keypad with alphan DATA PRINTOUT Integral thermal quid	g tubing 3 m (10 ft lon sleeve eflon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mod c, coverage by free back for positionir 78 x 58 cm, 320 x umerical input fund ck-printer, paper w	.) ng and stainless 3.9 in.), cable c dule s sight approx. g at metal surfa 240 dots, backl ction idth 58 mm (2.2	 2 steel tip 3 a. 3 m (10 ft.), magnet fixation & cone a. 3 m (70 yds.) aces it, graphic-/zoom-capable 6 2 in.) 7 	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MHz With magnet on the LCD colour display Keypad with alphan DATA PRINTOUT Integral thermal quid Matrix printer 58 mm	g tubing 3 m (10 ft lon sleeve effon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mod c, coverage by free back for positionir 78 x 58 cm, 320 x umerical input fund ck-printer, paper w h (2.2 in.) - instead	.) ng and stainless 3.9 in.), cable c sight approx. Ing at metal surfa 240 dots, backl ction idth 58 mm (2.2 I of thermal prin	 2 steel tip a. 3 m (10 ft.), magnet fixation & cone a. 3 m (70 yds.) aces it, graphic-/zoom-capable 6 2 in.) 7 	 <
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MHz With magnet on the LCD colour display Keypad with alphan DATA PRINTOUT Integral thermal quid Matrix printer 58 mn Address on protocol	g tubing 3 m (10 ft lon sleeve effon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mod c, coverage by free back for positionir 78 x 58 cm, 320 x umerical input fund ck-printer, paper w n (2.2 in.) - instead changeable by u	.) ng and stainless 3.9 in.), cable c sight approx. Ing at metal surfa 240 dots, backl ction idth 58 mm (2.2 I of thermal prin	 2 steel tip a. 3 m (10 ft.), magnet fixation & cone a. 3 m (70 yds.) aces it, graphic-/zoom-capable 6 2 in.) 7 	√ • √
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MHz With magnet on the LCD colour display Keypad with alphan DATA PRINTOUT Integral thermal quid Matrix printer 58 mn Address on protocol DATA PROCESSIN	g tubing 3 m (10 ft lon sleeve eflon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mod c, coverage by free back for positionin 78 x 58 cm, 320 x umerical input fund ck-printer, paper w h (2.2 in.) - instead changeable by u IG	.) ng and stainless 3.9 in.), cable c sight approx. Ing at metal surfa 240 dots, backl ction idth 58 mm (2.2 I of thermal prin	 2 steel tip a. 3 m (10 ft.), magnet fixation & cone a. 3 m (70 yds.) aces it, graphic-/zoom-capable 6 2 in.) 7 	
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3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MH2 With magnet on the LCD colour display Keypad with alphan DATA PRINTOUT Integral thermal quid Matrix printer 58 mm Address on protocol DATA PROCESSIN Slot for MM card; da Interface Bluetooth Interface Bluetooth Interface Wi-Fi	g tubing 3 m (10 ft lon sleeve effon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mode , coverage by free back for positionir 78 x 58 cm, 320 x umerical input fund ck-printer, paper w h (2.2 in.) - instead changeable by u IG tata logger function Classic Low Energy (BL	.) ag and stainless 3.9 in.), cable c dule sight approx . g at metal surfa 240 dots, backl 240 dots, backl ction idth 58 mm (2.2 I of thermal prin ser (via keypad E)	a. steel tip 3 a. 3 m (10 ft.), magnet fixation & cone 70 m (70 yds.) aces it, graphic-/zoom-capable 5 6 1: in.) 70 m	
3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MH2 With magnet on the LCD colour display Keypad with alphan DATA PRINTOUT Integral thermal quid Matrix printer 58 mm Address on protocol DATA PROCESSIN Slot for MM card; da Interface Bluetooth Interface Bluetooth Interface Wi-Fi	g tubing 3 m (10 ft lon sleeve effon protective rir olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mode , coverage by free back for positionir 78 x 58 cm, 320 x umerical input fund ck-printer, paper w h (2.2 in.) - instead changeable by u IG tata logger function Classic Low Energy (BL	.) ag and stainless 3.9 in.), cable c dule sight approx . g at metal surfa 240 dots, backl 240 dots, backl ction idth 58 mm (2.2 I of thermal prin ser (via keypad E)	 2 steel tip a. 3 m (10 ft.), magnet fixation & cone a. 3 m (70 yds.) aces it, graphic-/zoom-capable 6 2 in.) 7 	
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3-chamber sampling NOx tubing with Tef Fixation cone with T High-value T-Gas p COMBUSTION AIR T-Room sensor (PT DATA INDICATION Detachable monitori Frequency 868 MHz With magnet on the LCD colour display Keypad with alphan DATA PRINTOUT Integral thermal quid Matrix printer 58 mm Address on protocol DATA PROCESSIN Slot for MM card; da Interface Bluetooth Interface Bluetooth Interface Wi-Fi Data exchange with Receiving capability CONNECTIONS	g tubing 3 m (10 ft lon sleeve effon protective rin olug SENSOR 2000) L = 10 cm (/ INPUT ing/controlling mod c, coverage by free back for positionin 78 x 58 cm, 320 x umerical input fund ck-printer, paper w h (2.2 in.) - instead changeable by u G tata logger function Classic Low Energy (BL gratis ecom [®] PC s for diagnostic data	.) ng and stainless 3.9 in.), cable c sight approx. I g at metal surfa 240 dots, backl 240 dots, backl 240 dots, backl ction idth 58 mm (2.2 I of thermal prin ser (via keypad E) software MiniD	 a. steel tip a. 3 m (10 ft.), magnet fixation & cone a. 3 m (10 ft.), magnet fixation & cone a. 3 m (70 yds.) aces it, graphic-/zoom-capable 6 e in.) it, in.) iter iter<	
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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
ltem no. 108003
ecom-J2KNpro Easy, as 108001, but with MATRIX PRINTER and GAS COOLER
ltem no. 108004
GAS SENSORS OPTIONS
NO MEASUREMENT, 0-5000 PPM
(Item no. 101500)
NO MEASUREMENT, LOW 0-500 PPM
(Item no. 101501)
NO ₂ MEASUREMENT, 0-1000 PPM ⁽¹⁾
(Item no. 101502)
NO ₂ MEASUREMENT, LOW 0-100 PPM ⁽¹⁾
(Item no. 101503)
SO ₂ MEASUREMENT, 0-5000 PPM ⁽¹⁾
(Item no. 101504)
SO ₂ 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 H ₂ -COMP.), instead of H ₂ -
compensated
(Item no. 108313)
C _X H _Y 0-4% VOL, CATALYTIC
(Item no. 101561)
H ₂ MEASUREMENT 0-2000 PPM (VIA CO SENSOR)
(Item no. 101655)
H ₂ MEASUREMENT 0-20.000 PPM
(Item no. 107433) – in case H_2S also ordered.
(Item no. 107434)
H ₂ S MEASUREMENT 0-1000 PPM (CH ₄ FILTER)
(Item no. 103401)
⁽¹⁾ Gas cooler and NOx tubing recommended
⁽²⁾ Additional filtering recommended
GAS COOLER OPTION
GAS COOLER with automatic condensation evacua- tion, instead of condensation trap
(Item no. 108132)
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 $^{\mbox{(1)}}\mbox{Guaranteed}$ by use of NOx sampling tubing.

FLUE GAS ANALYSIS

HEATING PROFESSIONAL - BURNER & BOILER INDUSTRY ECOM-J2KNpro EASY



MEASUREMENT GAS PREPARATION	
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 cord length approx. 2.3 m (7.5 ft.)	1
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	√
Longlife sensors	✓
Separate LCD display for monitoring & indication of operation stands 9 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.	1
Toxic pollutants filter (NOx/SO ₂) 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	1
TUV-tested and -approved acc. to 1. BImSchV and EN 50379-2	1
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. 108001



PRINTER OPTION
MATRIX PRINTER (instead of thermal printer) For a long-lasting and non-fading documentation of the measurement values
(Item no. 108172)
RADIO CONNECTION ACCESSORY & OPTION
CONNECTION CABLE BASIC/CONTROL MODULE • In case of slight disturbed radio transfer • Length approx. 10 m (30 ft.) 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)
POWER SUPPLY OPTION
HELIX MAINS POWER CABLE (inst. straight style)

HELIX By longer distance between measurement point and power source

(Item no. 104461)

Item no. 100568
Item no. 50513
Item no. 51596
Item no. 50515
Item no. 50508
Item no. 52169





SAMPLING SYSTEM ALTERNATIVE	DATA RECORDING / DATA TRANSFER
GRIP, PROBE TIP SB Ø 10 MM, CONE	MM CARD 2 GB
LENGTH 350 MM (1.15 FT) Item no. 107513 (1)	Item no. 102469
LENGTH 500 MM (1.6 FT) Item no. 107515 (1)	/
LENGTH 700 MM (2.3 FT) Item no. 107516 (1)	DATA CABLE USB, ANALYSER -> PC
LENGTH 1000 MM (3.2 FT) Item no. 107517 (1)	For data transfer to PC
LENGTH 1500 MM (4.9 FT.) Item no. 107518 (1)	Length approx. 2 m (6.5 ft.)
	// Item no. 55818
HIGH-TEMPERATURE PROBE TIP Ø 10 MM	RADIO INTERFACE BOX
LENGTH 750 MM (2.4 FT.) Item no. 101183 ⁽¹⁾	For online transfer, with USB connection (PC-side).
ENGTH 1000 MM (3.2 FT.) Item no. 30001303 ⁽¹⁾	Not suitable for DAS 5 program
LENGTH 1500 MM (4.9 FT.) Item no. 101608 ⁽¹⁾	ltem no. 1050060
Application range up to 1100°C With high temperature cone Ø 10 mm	BLUETOOTH OPTION LOW ENERGY (BLE) Transfer / Recording of measurement values
3-CHAMBER TUBING WITH ODU PLUG	Remark: Option cannot be installed simultaneously to Wi-Fi option.
LENGTH 5,0 M (16.4 FT.) Item no. 106914 (1)	(Item no. 108192)
LENGTH 10,0 M (32.8 FT.) Item no. 106915 (1)	
	WI-FI OPTION V1, Direct equipment
NO _X TUBING, 3-CHAMBER, WITH ODU PLUG ⁽¹⁾	For use of APP "Remote display"
LENGTH 3,5 M (11.5 FT.) Item no. 106931 ⁽¹⁾	Remark: Option cannot be installed simultaneously to Bluetooth option.
LENGTH 5,0 M (16.4 FT.) Item no. 106932 ⁽¹⁾	
LENGTH 10,0 M (16.4 FT.) Item no. 107362 ⁽¹⁾	(Item no. 108193)
Length 10,0 m (10.411.) Rell 10. 10/302	APP "REMOTE DISPLAY" 🛛 💴 🗒 🗸

SAMPLING SYSTEM | ACCESSORIES

PROTECTION BAG

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

- Material: fabrics
- Dimensions: approx. 86 x 7.5 x 3 cm (33.8 x 2.9 x 1.1 in.)
- Weight: approx. 350 g (12.3 oz.)

Item no. 55991

FLEXIBLE PROBE TIP Ø 8 MM

For measurements at hardly accessible measurement openings

- With fixation cone, special version
- Flexible tubing
- Thermocouple
- Tip screwable on probe grip SB/SU style
- Length 400 mm

Item no. 102353 (1)

HEAT PROTECTION SHIELD

- 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.

FOR ECOM ANALYSERS

- currently available in Chinese, Danish, Dutch, English, French, German and Swedish -



FLUE GAS ANALYSIS

HEATING PROFESSIONAL - BURNER & BOILER INDUSTRY ECOM-J2KNpro EASY

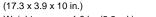


TRANSPORT | ACCESSORIES & ALTERNATIVES

UNDERCASE

Additional stowage for accessories/small parts

Dimensions: approx. 440 x 100 x 250 mm



- 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)

OUTDOOR TRANSPORT CASE SET *

Special version for outdoor applications (IP 43)

- Enables the instrument operation also by closed lid.
- With lateral out-leading for 3-chamber or NOx tubing • Dim. Case (W x D x H): approx. 510 x 250 x 310 mm
- (20 x 9.8 x 12.2 in.) • Weight main case: approx. 4.5 kg (9.9 pd.) - empty
- Dim. subcase (W x D x H): ca. 510 x 250 x 130 mm (20 x 9.8 x 5.1 in.)
- Weight subcase : approx. 1.0 kg (2.2 pd.) empty)
- Trolley: approx. 1.0 kg (2.2 pd.)
- Dimensions complete: approx. 510 x 250 x 520 mm (20 x 9.8 x 20.4 in.)
- Weight: approx. 6.5 kg (13.3 pd.) empty

(Item no. 108804)

* Sell-out item – Available as long as stock lasts!



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



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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.

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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 makes sure that especially water-soluble gas components do not dilute but get conveyed to the sensors.

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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.

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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





Companies manufacturing resp. maintain-ing engines or combined heat and power plants An exact NO, 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.



Raw material production



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.



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