

Overview of technical data

✓ Standard • Option x Not possible

Flue gas analyser model			J2KNpro	J2KNpro Industry	
Gas Components	Resolution	Accuracy	max. 6	max. 6 + NDIR*	
O₂	O ₂ (0 - 21 vol.%) - electrochemical	0,1 vol.%	± 0,3 vol.%	✓	✓
CO	CO (H ₂ -komp. 0 -10.000 ppm) - electrochemical	1 ppm	± 20 ppm or 5 % of reading**	✓	✓
	CO (n. H ₂ -komp. 0 -20.000 ppm) - electrochemical	1 ppm	± 40 ppm or 10 % of reading**	•	•
	CO% (0 -63.000 ppm) - electrochemical	5 ppm	± 100 ppm or 10 % of reading**	•	•
	CO% (0 -63.000 ppm) - NDIR* bank	10 ppm	± 200 ppm or 3 % of reading**	x	•
CO₂	CO ₂ (0 - 20 vol.%) - NDIR* sensor	0,1 vol.%	± 0,5 vol.% or 5 % of reading**	x	Optional: IR bank
NO_x	NO (0 - 5.000 ppm) - electrochemical	1 ppm	± 5 ppm or 5% of reading**	•	•
	NO _{Low} (0 - 500 ppm) - electrochemical	0,1 ppm	± 2 ppm or 5 % of reading**	•	•
	NO ₂ (0 - 1.000 ppm) - electrochemical	1 ppm	± 5 ppm or 5 % of reading**	•	•
	NO _{2Low} (0 - 1.000 ppm) - electrochemical	0,1 ppm	± 5 ppm or 5 % of reading**	•	•
	NO _x - measuring - electrochemical			via NO/NO ₂	via NO/NO ₂
SO₂	SO ₂ (0 - 5.000 ppm) - electrochemical	1 ppm	± 10 ppm or 5 % of reading**	•	•
H₂	H ₂ (0 - 2.000 ppm) - electrochemical	1 ppm	± 10 ppm or 5 % of reading**	•	•
	H ₂ (0 - 20.000 ppm) - electrochemical	1 ppm	± 100 ppm or 5 % of reading**	•	•
H₂S	H ₂ S (0 - 1.000 ppm) - electrochemical	1 ppm	± 10 ppm or 5 % of reading**	•	•
	H ₂ S (0 - 5.000 ppm) - electrochemical	1 ppm	± 50 ppm or 5 % of reading**	•	x
C_xH_y	C _x H _y (0 - 4 vol.%) - catalytic	0,01 vol.%		•	•
	CH ₄ (0 - 100 vol.%) - NDIR* sensor	0,1 vol.%	up to ± 5 % measur range endvalue	•	•
	C _x H _y (CH ₄ 0 - 3 vol.%) - NDIR* bank	0,001 vol.%	± 0,005 vol.% or 3 % of reading**	x	•
	C _x H _y (C ₂ H ₆ 0 - 2.000 ppm) - NDIR* bank	1 ppm	± 4 ppm or 3 % of reading**	x	•
Additional Measurements Display Options		Resolution	Accuracy		
T-Gas	0 - 500 °C	1 °C	± 2 °C or 1,5 % of the reading**	✓	✓
	0 - 1.100 °C	1 °C	± 2 °C or 1,5 % of the reading**	•	•
T-Air	0 - 99 °C	1 °C	± 1 °C	✓	✓
Pressure ΔP	± 100 hPa	0,01 hPa	± 0,5 hPa or 1 % of the reading**	✓	✓
Calculated values					
CO ₂ - 0 - CO ₂ max				✓	✓
Combustion efficiency (ETA)				✓	✓
Excess air (Lambda) - > 1				✓	✓
Losses qA - 0 - 100 %				✓	✓
Dew point - x °C				✓	✓
mg/m ³ - x mg/m ³				✓	✓
mg/KWh - x mg/KWh				✓	✓
O ₂ - reference- x % O ₂				✓	✓

* NDIR = non dispersive infrared technology
** the higher value prevails

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Gas processing		
Electronic condensation monitoring	✓	✓
Automatic condensation evacuation	✓	✓
Electronic gas cooler	•	✓
Operation safety		
Temperature trend indication for core stream search	✓	✓
CO switch-off	✓	✓
Fresh air purge by CO exceeding	✓	✓
Fresh air purge after operation	✓	✓
Flow meter for pump performance control	✓	✓
Sampling system		
Heated probe, type SB	✓	•
Unheated probe, type SU	•	•
Heated probe with integrated PTFE filter and thermocouple (for heated sampling system)	x	•
Gas transportation (tubing hose)		
Multi-chamber silicone tubing	✓	•
NO _x / SO _x special tubing with PTFE inner coating	•	•
Heated tubing (in combination with heated sampling system)	x	•
Printer		
Thermal quick-printer, integral	✓	✓
Dot matrix printer	•	•
Data processing		
Serial interface for data transfer	✓	✓
USB interface for data transfer	✓	✓
Wireless data interface (e.g. for connection to a smartphone or tablet)	✓	✓
Data recording on multimedia card	•	•
Reception possibility for diagnosis data from ecom-AK	✓	✓
Remote control		
via backlit keypad	✓	✓
via radio remote	✓	✓
via smartphone/tablet (free iOS + Android app)	✓	✓
Transport		
Aluminum-framed transport case	✓	✓
Under case	•	•

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