

# 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*	
<b>O<sub>2</sub></b>	O <sub>2</sub> (0 - 21 vol.%) - electrochemical	0,1 vol.%	± 0,3 vol.%	✓	✓
<b>CO</b>	CO (H <sub>2</sub> -komp. 0 -10.000 ppm) - electrochemical	1 ppm	± 20 ppm or 5 % of reading**	✓	✓
	CO (n. H <sub>2</sub> -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	•
<b>CO<sub>2</sub></b>	CO <sub>2</sub> (0 - 20 vol.%) - NDIR* sensor	0,1 vol.%	± 0,5 vol.% or 5 % of reading**	x	Optional: IR bank
<b>NO<sub>x</sub></b>	NO (0 - 5.000 ppm) - electrochemical	1 ppm	± 5 ppm or 5% of reading**	•	•
	NO <sub>low</sub> (0 - 300 ppm) - electrochemical	0,1 ppm	± 2 ppm or 5 % of reading**	•	•
	NO <sub>2</sub> (0 - 1.000 ppm) - electrochemical	1 ppm	± 5 ppm or 5% of reading**	•	•
	NO <sub>2,low</sub> (0 - 1.000 ppm) - electrochemical	0,1 ppm	± 5 ppm or 5 % of reading**	•	•
	NO <sub>x</sub> - measuring - electrochemical			via NO/NO <sub>2</sub>	via NO/NO <sub>2</sub>
<b>SO<sub>2</sub></b>	SO <sub>2</sub> (0 - 5.000 ppm) - electrochemical	1 ppm	± 10 ppm or 5 % of reading**	•	•
<b>H<sub>2</sub></b>	H <sub>2</sub> (0 - 2.000 ppm) - electrochemical	1 ppm	± 10 ppm or 5 % of reading**	•	•
	H <sub>2</sub> (0 - 20.000 ppm) - electrochemical	1 ppm	± 100 ppm or 5 % of reading**	•	•
<b>H<sub>2</sub>S</b>	H <sub>2</sub> S (0 - 1.000 ppm) - electrochemical	1 ppm	± 10 ppm or 5 % of reading**	•	•
	H <sub>2</sub> S (0 - 5.000 ppm) - electrochemical	1 ppm	± 50 ppm or 5 % of reading**	•	x
<b>C<sub>x</sub>H<sub>y</sub></b>	C <sub>x</sub> H <sub>y</sub> (0 - 4 vol.%) - catalytic	0,01 vol.%		•	•
	CH <sub>4</sub> (0 - 100 vol.%) - NDIR* sensor	0,1 vol.%	up to ± 5 % measur range endvalue	•	•
	C <sub>x</sub> H <sub>y</sub> (CH <sub>4</sub> 0 - 3 vol.%) - NDIR* bank	0,001 vol.%	± 0,005 vol.% or 3 % of reading**	x	•
	C <sub>x</sub> H <sub>y</sub> (C <sub>2</sub> H <sub>4</sub> 0 - 2.000 ppm) - NDIR* bank	1 ppm	± 4 ppm or 3 % of reading**	x	•
<b>Additional Measurements   Display Options</b>		<b>Resolution</b>	<b>Accuracy</b>		
<b>T-Gas</b>	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**	•	•
<b>T-Air</b>	0 - 99 °C	1 °C	± 1 °C	✓	✓
<b>Pressure   ΔP</b>	± 100 hPa	0,01 hPa	± 0,5 hPa or 1 % of the reading**	✓	✓
<b>Calculated values</b>					
CO <sub>2</sub> - 0 - CO <sub>2</sub> max			✓	✓	
Combustion efficiency (ETA)			✓	✓	
Excess air (Lambda) - > 1			✓	✓	
Losses qA - 0 - 100 %			✓	✓	
Dew point - x °C			✓	✓	
mg/m <sup>3</sup> - x mg/m <sup>3</sup>			✓	✓	
mg/KWh - x mg/KWh			✓	✓	
O <sub>2</sub> - reference- x % O <sub>2</sub>			✓	✓	

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

✓ Standard • Option x Not possible

Flue gas analyser model	J2KNpro	J2KNpro Industry
<b>Gas processing</b>		
Electronic condensation monitoring	✓	✓
Automatic condensation evacuation	✓	✓
Electronic gas cooler	•	✓
<b>Operation safety</b>		
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	✓	✓
<b>Sampling system</b>		
Heated probe, type SB	✓	•
Unheated probe, type SU	•	•
Heated probe with integrated PTFE filter and thermocouple (for heated sampling system)	x	•
<b>Gas transportation (tubing hose)</b>		
Multi-chamber silicone tubing	✓	•
NO <sub>x</sub> / SO <sub>2</sub> special tubing with PTFE inner coating	•	•
Heated tubing (in combination with heated sampling system)	x	•
<b>Printer</b>		
Thermal quick-printer, integral	✓	✓
Dot matrix printer	•	•
<b>Data processing</b>		
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	✓	✓
<b>Remote control</b>		
via backlit keypad	✓	✓
via radio remote	✓	✓
via smartphone/tablet (free IOS + Android app)	✓	✓
<b>Transport</b>		
Aluminum-framed transport case	✓	✓
Under case	•	•

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