TECHNICAL DATA SHEET

The professional measuring package for checking and adjusting medium- and large-sized combustion systems

The compact high-end exhaust gas analyser with detachable wireless remote control with colour display enables precise measurements even over long distances. Equipped with longlife sensors, it offers comprehensive emissions analysis - ideal for demanding applications.

With integrated soot measurement, heated gas sampling probe, low-maintenance high-performance pump and integrated fresh air purge, the J2KNpro Expert is designed for tough and demanding applications. BLE for wireless data transfer and an integral thermal quick-printer for analog results documentation round off.

Technical data

Measured values	Range	Resolution	Accuracy *= Higher value prevails	
√ = Standard; ● = Opti	onal EC;	DIR; ● = Optional	Pellistor	
Maximum number	of measurable gas of	components		6
02	021 %	0,1 vol. %	± 0,3 vol. %	√
CO (H ₂ -comp.)	02.500 ppm (10.000 ppm)	1 ppm	± 20 ppm / 5 % of measured value*	√
CO (n. H ₂ -comp)	020.000 ppm	1 ppm	± 40 ppm / 10 % of measured value*	
C0%	063.000 ppm	5 ppm	± 100 ppm / 10 % of measured value*	
CO ₂	0100 vol. %	0,01 vol. %	up to 5 % of the measuring range end value	
NO	05.000 ppm	1 ppm	± 5 ppm / 5 % of measured value*	√
NO _{ExtraLow}	0300 ppm	0,1 ppm	± 2 ppm / 5 % of measured value*	
NO_2	01.000 ppm	1 ppm	± 5 ppm / 5 % of measured value*	√
NO _{2 Low}	0100 ppm	0,1 ppm	± 5 ppm / 5 % of measured value*	
SO ₂	05.000 ppm	1 ppm	± 10 ppm / 5 % of measured value*	
SO _{2 Low CO}	05.000 ppm	1 ppm	± 10 ppm / 5 % of measured value*	
SO _{2 Low}	0100 ppm	0,1 ppm	± 5 ppm / 5 % of measured value*	
H ₂	02.000 ppm	1 ppm	± 10 ppm / 5 % of measured value*	
H ₂	020.000 ppm	1 ppm	± 100 ppm / 5 % of measured value*	
H ₂ S	01.000 ppm	1 ppm	± 10 ppm / 5 % of measured value*	
CH ₄	05 vol. %	0,01 vol. %	± 0,2 vol. % / 5 % of measured value*	•
CH ₄	0100 vol. %	0,1 vol. %	± 5 % of the measuring range end value	
C_xH_y	04 vol. %	0,01 vol. %		٠
Other measured variables	Range	Resolution	Accuracy *= Higher value prevails	
T-Gas	0500 °C	1 °C	± 2 °C / 1,5 % of measured value*	√
	01.100 °C	1 °C	± 2 °C / 1,5 % of measured value*	
T-Air	099 °C	0,1 °C	±1°C	√
Pressure △P	± 100 hPa	0,01 hPa	± 0,5 hPa / 1 % of measured value*	√
Calculation values			Range	
CO ₂			0CO _{2 max}	√
Combustion efficiency (ETA)			0120 %	√
Excess air (Lambda)			>1	√
Losses qA			0100 %	√
CO _(U) undiluted			x ppm	√
Dew point			x° C	V
mg/m³			x mg/m³	٧
mg/kWh			x mg/kWh	V
O ₂ reference			x % O ₂	√

ECOM-J2KNpro Expert MOBILE FLUE GAS ANALYSIS



Equipment

Gas sampling Heated probe 300 mm, Ø 10 mm with fixing cone 3-chamber NO _x tubing with PTFE inner coating	√		
	√		
3-chamber NO _x tubing with PTFE inner coating			
	√		
High temperature probe	٠		
Measurement gas preparation			
Electronic condensate monitoring	√		
Automatic condensation evacuation	√		
Electronic sample gas cooler			
Combustion air temperature measurement			
T-room sensor with cable, cone and magnet	√		
Operation safety			
Pressure-equalizing gas duct plate	√		
Heated gas duct plate	√		
Temperature display for stream core search			
Internal air pressure sensor			
Automatic self-test in the calibration phase			
·	√		
	√		
	√		
	√		
Pollutant filter for CO sensor			
Data processing			
	√		
	· √		
	·		
WiFi interface (instead of BLE)			
Serial interface			
USB interface			
Data display/ input	√		
TFT colour display, backlit, zoomable	√		
Backlit keyboard			
Removable control unit with magnets on the back			
Transport	İ		
Aluminium-framed case with carrying strap	√		
Undercase Undercase			
Proof of conformity / calibration			
EN 50379-2	1		
1. BImSchV			
	,/		
Certificate after climate chamber calibration	√		



