TECHNICAL DATA SHEET

The variably equipped mobile measuring device with radio remote control for monitoring emission values

The device offers a removable wireless control module with colour display and is equipped with longlife $\rm O_2$ and CO sensors in the basic version, expandable up to six sensors at a total. An infrared bank for up to three gas components can be added as an option. The CO sensor is equipped with overload protection and a fresh air purge to ensure uninterrupted measurements of the other parameters.

A low-maintenance, high-performance sample gas pump and a solenoid valve, which enables quasi-continuous measurement, ensure fast and reliable emission measurements at industrial plants.

Technical data

Measured values	Range	Resolution	Accuracy *= Higher value prevails	
√ = Standard; ● = Option	onal EC;	DIR; • = Optional	Pellistor	
Maximum number	of measurable gas o	components		ç
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*	
CO%	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*	
CH₄	05 vol. %	0,01 vol. %	± 0,2 vol. % / 5 % of measured value*	
CH₄	0100 vol. %	0,1 vol. %	± 5 % of the measuring range end value	
C _x H _y	04 vol. %	0,01 vol. %		
C _x H _y	04 vol. %	0,01 vol. %		
C _x H _y (propane)	02.000 ppm	1 ppm	± 4 ppm / 3 % of measured value*	
C _x H _y (methane)	03 %	0,001 %	± 0,005 vol.% / 3 % of measured value*	
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	
mg/m³			x mg/m³	
mg/kWh			x mg/kWh	
O ₂ reference			x % O ₂	



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ECOM-J2KNpro Industry MOBILE FLUE GAS ANALYSIS



Equipment

Gas sampling		
Heated probe various lengths, Ø 10 mm	Τ.	
Heated sampling system		
3-chamber NO, tubing with PTFE inner coating	١.	
Measurement gas preparation		
Electronic condensate monitoring	Τ,	
Automatic condensation evacuation		
Electronic sample gas cooler	١,	
Combustion air temperature measurement		
T-room sensor with cable, cone and magnet	١,	
Operation safety		
Pressure-equalizing gas duct plate	Τ,	
Heated gas duct plate	١,	
Temperature display for stream core search		
Internal air pressure sensor	,	
Automatic self-test in the calibration phase	١,	
CO switch-off by concentration overload	١,	
Fresh air purge by CO exceeding	١,	
Fresh air purge after measuring operation		
Flow meter for pump performance check		
Solenoid valve for quasi-continuous measurements		
Pollutant filter for CO sensor	,	
Special PTFE filter for IR bench	١.	
Data processing		
Integrated high-speed thermal printer	Τ,	
External memory via SD card		
Wireless data interface (BLE)		
WiFi interface (instead of BLE)		
Serial interface	١,	
USB interface	,	
Data display / input		
TFT colour display, backlit, zoomable	Τ,	
Backlit keyboard		
Removable control unit with magnets on the back	,	
Transport		
Aluminium-framed case with carrying strap	١,	
Undercase	١.	
Proof of conformity / calibration		
EN 50379-2	Ι,	
1. BlmSchV		
Certificate after climate chamber calibration	Τ.	

