



A class of its own - Handheld Combustion / Emission Analyzer

O2 CO2 CO NOx NO NO2 SO2 CxHy

ΔP ΔT Flow BTU Gas Leak





The new generation of gas analysis

Making a proven concept even better - NEW HIGHLIGHTS



A proven design, a modern re-imagining

Proven features setting the bar for high value analyzers:



Large, illuminated condensate trap with water stop filter

- Up to 7 gas parameters, plus temperature, pressure, and flow
- +4yr Long-life O2 sensor
- Active CO sensor protection
- Powerful Li-ion battery provides up to 20hrs of operating time
- Extensive probe selection





for hand free operation





TECHNICAL DETAILS

•		Measuring ran	Measuring range		Accuracy			
02	Oxygen (Long Life)	0 21%		0.1 %	± 0.2 Vol-% abs-			
со	Carbon monoxide (H2 Compensated) 0 10,000 / 20,000 p		,000 ppm *	1 ppm	\pm 10 ppm or 5 % reading < 4,000 ppm $/$ 10 % reading > 4,000 ppm ***			
со	Carbon monoxide (low) 0 500 **			0.1 ppm	± 2.0 ppm or 5 % reading ***			
со	Carbon monoxide (high) 0 40,000 / 100,0		0,000 ppm *	1 ppm	± 0.02% or 5 % reading < 0.4% / 10 % reading > 0.4% ***		g > 0.4% ***	
NO	Nitric oxide 0 1,000 / 5,000 ppm		00 ppm *	1 ppm	\pm 5 ppm or 5 % reading < 1,000 ppm / 10 % reading > 1,000 ppm ***			
NO	Nitric oxide (low)	0 300 **		0.1 ppm	± 2.0 ppm or 5 % reading ***			
NO2	Nitric dioxide	0 200 / 1,000	200 / 1,000 ppm *		± 5 ppm or 5 % reading up to 200 ppm or 10 % reading up to 1,000 ppm***			
NO ₂	Nitric dioxide (low)	0 300 **		0.1 ppm	± 2.0 ppm or 5 % reading ***			
SO ₂	Sulfur dioxide	0 2,000 / 5,00	00 ppm *	1 ppm	±10 ppm or 5 % reading up to 2,000 ppm or 10 % reading up to 5,000 ppm ***			
SO ₂	Sulfur dioxide (low)	0 300 **		0.1 ppm	± 2.0 ppm or 4 % reading ***			
1-gas N	NDIR bench	Measuring ran	ge	Resolution	Accuracy			
CO ₂	Carbon dioxide	0 40 Vol %	_	0.1 %	<u> </u>	f the measured value ***		
2-gas N	NDIR bench	Measuring ran	ge	Resolution	Accuracy			
CO2	Carbon dioxide	0 40 Vol %	0 40 Vol %		± 0.5 % or 5 % of the measured value ***			
СхНу	Hydrocarbons	100 40,000 pp	om	10 ppm	± 400 ppm or 5% reading***			
Other r	measured components	Measurir	ng Range		Resolution	Accuracy		
Stack / Flue gas temperature			32 1,472°F (0 800°C) with stainless steel		1 °F	± 4°F < 392°F / 1 % reading > 392°F		
Drives and Amelian to the control of			32 2,012°F (0 1100°C) with Inconel		*05	± 4°F < 392°F / 1 % reading > 392°F		
Primary air / Ambient air temperature					1°F	± 2°F		
Differential temperature			Up to 2,012°F (0 1100°C) +/- 40 inH2O (100hPa)		1°F	± 4°F < 392°F / 1 % reading > 392°F		
				1 Pa 1 Pa	± 0.02 inH2O or 1% reading			
•		2O (200hPa)	, ,		± 0.02 inH2O or 1% readi	ng		
Gas flo	w velocity measurement	3 100 m	/s (using Pitot tube)		0.1 m/s			
Calcula	ated values Range		Calculated values	Range		Calculated values	Range	
Carbon	n dioxide 0 CO2	max.	Efficiency	0 120 %		Excess Air	0 99.9	
Heat lo	osses qA 0 99.9	%	Air Ratio (Lambda)	1 9.99		CO/CO2 ratio	0 10	
GENER	AL SPECIFICATIONS							
Max suction range gas pump / Typical gas flow			150 hPa / 50 l/h					
Internal memory			32,000 data sets					
Data transmission / Interfaces			USB, Bluetooth, WLAN / USB, Bluetooth, WLAN, IRDA, SD CARD					
Display			4"color display					
Operation temperature / Storage temperature			+5°C +45 °C / 41 °F	+5°C +45 °C / 41 °F 113 °F / -20°C +50°C / -4°F 122°F				
Ambient conditions			95% Rel. Humidity, no	95% Rel. Humidity, non-condensing				
Internal Battery Pack / Grid power supply			Li-lon, 20h operation	Li-lon, 20h operation time / 100 - 240 V / 5V DC / 1200 mA				



Protection class

Dimensions / Weight

TÜV approval

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EN 50379-1 and 2, ByRgG 280

4.3" x 8.8" x 2.04" (244x113x54 mm) / 1.65 lbs. (750g)

IP30

MRU Repesentative:

Subject to change without notice / * short term overload / ** this is not a separate sensor-this an a software option with special calibration / *** whichever is larger