



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

- High resolution display providing more information with detailed graphics
- Illuminated condensate trap and water-stop
- WLAN network connectivity
- Easy Bluetooth connection to the powerful MRU4U App or printer



## A proven design, a modern re-imagining

## Proven features setting the bar for high value analyzers:



Large, illuminated condensate trap with water stop filter

other external sensors

- 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









## TECHNICAL DETAILS

Measurement component		Measuring range	Resolution	Accuracy
02	Oxygen (Long Life)	0 21%	0.1 %	± 0.2 Vol-% abs-
со	Carbon monoxide (H2 Compensated)	0 10,000 / 20,000 ppm *	1 ppm	<b>± 10 ppm or 5 % reading &lt; 4,000</b> 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 / 100,000 ppm *	1 ppm	± 0.02% or 5 % reading < 0.4% / 10 % reading > 0.4%
NO	Nitric oxide	0 1,000 / 5,000 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 ppm *	1 ppm	$\pm$ 5 ppm or 5 % reading up to 200 ppm or 10 % reading up to 1.000 ppm**
NO2	Nitric dioxide (low)	0 300 **	0.1 ppm	
SO <sub>2</sub>	Sulfur dioxide	0 2,000 / 5,000 ppm *	1 ppm	± 10 ppm or 5 % reading up to 2.000 ppm or 10 % reading up to 5.000 ppm**
SO <sub>2</sub>	Sulfur dioxide (low)	0300 **	0.1 ppm	
1-gas NDIR bench Mo		Measuring range	Resolution	Accuracy
CO2	Carbon dioxide	0 40 Vol %	0.1%	+ 0.3 % or 5 % of the measured value***

-02	curbon aloxide	0 10 101 70	0.1 70	2 0.3 % of the measured value
2-gas NDIR bench		Measuring range	Resolution	Accuracy
CO2	Carbon dioxide	0 40 Vol %	0.1 %	± 0.5 % or 5 % of the measured value***
CxHv	Hydrocarbons	100 40,000 ppm	10 ppm	± 400 ppm or 5% reading***

Other measured components	Measuring Range	Resolution	Accuracy
Stack / Flue gas temperature	32 1,472°F (0 800°C) with stainless steel 32 2,012°F (0 1100°C) with Inconel	1 °F	± 4°F < 392°F / 1 % reading > 392°F ± 4°F < 392°F / 1 % reading > 392°F
Primary air / Ambient air temperature	32 212°F (0 100 °C)	1°F	± 2°F
Differential temperature	Up to 2,012°F (0 1100°C)	1°F	± 4°F < 392°F / 1 % reading > 392°F
Stack draft	+/- 40 inH2O (100hPa)	1 Pa	± 0.02 inH2O or 1% reading
Differential pressure	+/- 80 inH2O (200hPa)	1 Pa	± 0.02 inH2O or 1% reading
Gas flow velocity measurement	3 100 m/s (using Pitot tube)	0.1 m/s	

Calculated values	Range	Calculated values	Range	Calculated values	Range
Carbon dioxide	0 CO2 max.	Efficiency	0 120 %	Excess Air	0 99.9
Heat losses qA	0 99.9 %	Air Ratio (Lambda)	1 9.99	CO/CO2 ratio	0 10

## GENERAL 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 113 °F / -20°C +50°C / -4°F 122°F
Ambient conditions	95% Rel. Humidity, non-condensing
Internal Battery Pack / Grid power supply	Li-lon, 20h operation time / 100 - 240 V / 5V DC / 1200 mA
Protection class	IP30
Dimensions / Weight	4.3" x 8.8" x 2.04" (244x113x54 mm) / 1.65 lbs. (750g)
TÜV approval	TBD



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Subject to change without notice /\* short term overload / \*\* this is nor a separate sensor-this an a software option with special calibration / \*\*\* whichever is larger