



AMPRO¹⁰⁰⁰

COMBUSTION ANALYSIS MADE EASY!

O₂ | CO₂ | CO | NO | ΔP | ΔT



For control measurements
at gas-, oil- and wood-firings



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DISCOVER THE SMART DIFFERENCE!

THE ALL IN ONE, HIGH TECH, MULTI TOOL:

- ▶ Flue gas analyzer with real-time combustion calculation
- ▶ Digital manometer for stack draft and differential pressure
- ▶ Digital dual channel temperature
- ▶ Ambient air CO tester

SMART POWER AND HIGH ACCURACY WITH:

- O₂, CO, NO and calculated CO₂
- Back-lit, color display
- Intuitive and easy to use operation
- Combustion and efficiency analyzer in one with integrated ambient air tester
- Differential manometer and dual channel thermometer
- Large fuel type list for multiple applications
- High-capacity Lithium-Ion battery
- Internal data storage of up to 1,000 complete measurement data sets
- Easy data collection features include
 - > USB / SC card / Bluetooth
 - > IRDA printer interface for MRU high speed printer

ALSO MEASURES...

- Combustion air temperature
- Stack gas temperature
- Stack draft
- Differential temperature
- Differential pressure

AND CALCULATES...

- CO₂
- CO/CO₂ ratio
- Dew point
- Excess air and air ratio (Lambda)
- Combustion efficiency
- Heat losses

COMBUSTION ANALYZER

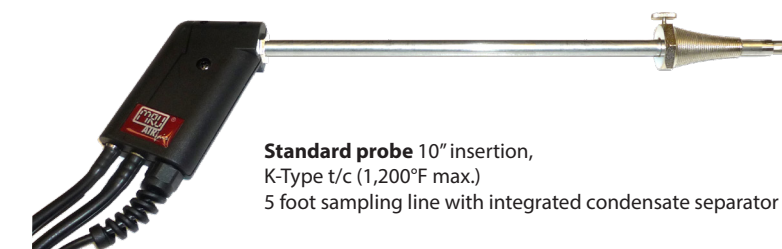
Using electro-chemical cells for O₂ and CO, this low-cost analyzer is suitable for control and set-up for all kinds of burners, condensing boilers, oil, biomass burners and more!

Intuitive software menu and modern, bright, color touch screen guides you through all measuring programs.

Select the Bluetooth option to transmit real-time data to your PC, or use the MRU4u App for Android and iOS to conveniently collect data on your smartphone or tablet.

Store up to 1,000 test data sets on the internal data storage or on the micro-SD card.

Printing is fast and simple with the MRU high speed IR printer at your fingertips.



INTERFACES



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TECHNICAL SPECIFICATIONS

Measurement component	Measuring range	Resolution	Accuracy
O ₂ Oxygen (Long Life)	0 ... 21%	0.1 %	± 0.2 Vol-% abs.
CO Carbon monoxide (H ₂ Compensated)	0 ... 10,000 / 20,000 ppm *	1 ppm	± 10 ppm o 5 % of reading < 4,000 ppm / 10 % of reading > 4,000 ppm
NO Nitric oxide	0 ... 1,000 / 5,000 ppm *	1 ppm	± 5 ppm o 5 % of reading < 1,000 ppm / 10 % of reading > 1,000 ppm

Other measured components	Measuring Range	Resolution	Accuracy
Stack / Flue gas temperature	-40 ... 2192 °F	0.1 °F	± 4 °F ... < 200°C / 1 % of reading > 200°C
Primary air / Ambient air temperature	32 ... 212 °F	0.1 °F	± 4 °F
Differential temperature	-40 ... 2192 °F	0.1 °F	± 4 °F ... or 0.5%
Stack draft	+/- 80 inH ₂ O	1 inH ₂ O	± 0.01 inH ₂ O
Differential pressure	+/- 80 inH ₂ O	1 inH ₂ O	± 0.01 inH ₂ O

Calculated values	Range	Calculated values	Range	Calculated values	Range
Carbon dioxide	0 ... CO ₂ max.	Efficiency	0 ... 120 %	Excess Air	0 ... 99.9
Heat losses qA	0 ... 99.9 %	Air Ratio (Lambda)	1 ... 9.99	CO/CO ₂ ratio	0 ... 10

GENERAL SPECIFICATIONS	
Operation temperature	41 °F ... 113 °F
Storage temperature	-4°F ... 122°F
Ambient conditions	95% Rel. Humidity, non-condensing
Data storage	1,000 measurements, 1,000 sites
Interfaces	Mini-USB, Micro-SD, IRDA, Bluetooth (data transfer to Smartphone, Tablet or PC)
Internal Battery Pack	Lithium-Ion battery, 2250 mAh
Grid power supply	100 - 240 VCA / 50 ... 60 Hz 500mA
Protection class	IP30
Weight	Approximately 1.1 lbs. (with 2 sensors)
Dimensions	(W x H x D) 3.23" x 6.65" x 1.73"
Approvals	TUV-certified according to 1. BlmSchV and EN 50379-1 and 2 (Version B) or EN 50379-3 (Version E), ByRgG 309

Data subject to change without notice. | * only for short time measurements | ** which ever is larger |



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