

COMBUSTION ANALYSIS MADE EASY!

AMPRO 1000 - Discover the smart difference! for residential and light commercial combustion analysis.





Over 30 years of innovative gas analysis!

- Big and bright color touch screen
- Light, small and rugged
- Powerful Lithium-lon battery
- Field replaceable, pre-calibrated sensors

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 and calculated CO2
- MSM sensor technology field replaceable, pre-calibrated sensors
- Backlit, color touch screen
- Intuitive and easy to use operation
- Combustion and efficiency analyzer in one with integrated ambient air tester
- Differential manometer and dual channel digital 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 includeUSB and SD card (and optional Blue-tooth)
- IRDA printer interface for MRU high speed thermal printer

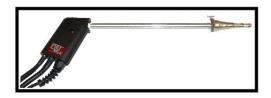
Also measures...

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

And calculates...

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

Combustion Analyzer



Standard probe: 10" insertion; 5' sampling line with integrated condensate separator K-Type t/c (1,200°F max)



Using electrochemical cells for O2 and CO this low-cost analyzer is suitable for control and setup of all kinds of gas burners, condensing boilers, oil, biomass burners and more!

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.



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

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



"MSM" (MRU Sensor Management) technology Need to change a sensor in the field? Not a problem! We offer pre-calibrated cells to avoid analyzer service downtime.

EASY - SIMPLE - FAST

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









TECHNICAL SPECIFICATIONS

AMPRO 1000 analyzer	Handheld gas analyzer
Fuel types	Natural gas, propane, butane, #2 & #6 light oils,
	coal, wood dry, pellets and four user defined fuel types

Measurement components		Measuring range	Resolution	Accuracy	
O ₂	Oxygen	0 21.0 Vol-%	0,1%	± 0.2 Vol-% abs.	
СО	Carbon monoxide	0 4,000 ppm	1 ppm	± 10 ppm or **	
	(H2 compensated)	overload 10,000ppm *		5 % reading < 4,000 ppm / 10 % reading > 4,000 ppm	
co	Carbon monoxide	0 2,000 ppm	1 ppm	± 20 ppm or **	
	(NOT H2 compensated)	overload 4,000ppm *		5 % reading < 2,000 ppm / 10 % reading > 2,000 ppm	
NO	Nitric oxide	0 1,000 ppm	1 ppm	± 5 ppm or **	
		overload 5,000ppm *		5 % reading < 1,000 ppm / 10 % reading > 1,000 ppm	
Stack / Flue gas temperature		-40 2,100°F		± 1°F < 392°FF / 1 % reading > 392°F	
		(with stainless steel / Inconel steel tube)			
Primary-air / Ambient temperature		-40 212°F		±1°F	
Differential temperature		up to 2,100°F		± 1°F or 0.5 %	
		(with suitable material of sampling tube)			
Draft		+/- 20 inH2O (50hPa)		± 0.01 inH2O or 1% reading	
Differential pressure		+/- 40 inH2O (100hPa)		± 0.01 inH2O or 1% reading	

^{*}overload range recommend only for short time measurements

Calculated values (fuel type dependent)

Carbon dioxide	0 CO2 max.	Air Ratio (Lambda)	1 9.99
Heat losses qA	0 99.9 %	Excess Air	0 99.9
Efficiency	0 100 % / 120 %	CO/CO2 ratio	0 10

General specifications

Operation temperature	41°F 113°F, max. 95 % RH, non condensing
Storage temperature	-4°F 122°F
Ambient conditions	not in aggressive, corrosive or high dust environments, not for use in hazardous areas
Power supply	Lithium-Ion battery, 2250 mAh
Grid power supply	100 - 240 V AC / 50 60 Hz 500mA
Protection class	IP40
Weight	approx. 1.0 lbs. (with 2 sensors)
Dimensions	(W x H x D) 3.23" x 6.65" x 1.73"

Data subject to change without notice



^{**}which ever is larger