

# BluFlame Combustion Analyzer

**The BluFlame is a powerful Bluetooth, touch screen, diagnostic flue gas analyzer for residential and commercial heating installations and maintenance.**

An all in one, high-tech, multi-tool, the handheld gas analyzer is ideal for the entire commissioning process from setting the input to the fuel pressure to verification of proper draft. Paired with a free innovative iOS and Android diagnostic and reporting application, this compact unit is a true breakthrough in the industry.

## Features

- Flue gas analyzer with real-time combustion calculation
- Digital manometer for stack draft and differential pressure
- Digital dual channel temperature measurement
- MSM sensor technology allows for field replaceable sensors
- Backlit, color touch screen is intuitive and easy to use
- Combustion and efficiency analyzer in one with integrated ambient air carbon monoxide testing
- 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 and SD card (Bluetooth equipped)



<b>BluFlame Analyzer</b>	Handheld Gas Analyzer
<b>Fuel Types</b>	Natural Gas, Propane, Oil Light, Pellets, Wood, Coal and Others

Measurement Components	Measuring Range	Resolution	Accuracy
O2 Oxygen	0 ... 21.0 Vol%	0.1%	± 0.2 Vol% Abs.
CO Carbon Monoxide (not H2 compensated)	0 ... 2,000 ppm Overload 4,000 ppm*	1 ppm	± 10 ppm or ** 5% Reading < 4,000 ppm 10% reading > 4,000 ppm
Stack / Flue Gas Temperature	-40 ... 2,100°F (with stainless steel / inconel steel tube)		± 1°F ... < 392°F / 1% Reading > 392°F
Primary-air / Ambient Temperature	-40 ... 212°F		± 1°F
Differential Temperature	Up to 2,100°F		± 1°F or 0.5%
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 \*\*Whichever is larger



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## Calculated Values (fuel type dependent)

Carbon Dioxide	0 ... CO2 Max.
Heat Losses qA	0 ... 99.9%
Efficiency	0 ... 100%
Air Ratio (lambda)	1 ... 9.99
Excess Air	0 ... 99.9
CO/CO2 Ratio	0 ... 10.0
CO Air Free	0 ... 10,000 ppm

## General Specifications

Operation Temperature	41 - 113°F, Max. 95% RH, Non-condensing
Storage Temperature	-4 - 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
Compatible Power Source	100 - 240 V AC / 50 ... 60 Hz 500mA
Protection Class	IP40
Weight	Approx. 1.0 lb (with 2 sensors)
Dimensions	3.23" x 6.65" x 1.73"

## Certifications

IEEE	802.15.1 (for Bluetooth)
FCC ID	MRU602578 (for Bluetooth)
TUV By RgG	309 EN50379-3 (European combustion analyzer performance specification)

## Includes

Bluetooth Combustion Analyzer	Sampling Probe with Probe Stop
Water Trap and Spare Particulate Filter	Rugged Case
Free Android or iOS Application	Works with MeasureQUICK™

