

UEi

SMART BELL

COMBUSTION METER



COMBUSTION MADE EASY

1.800.547.5740 • WWW.UEITEST.COM/SMARTBELL



SMART BELL COMBUSTION METER™

What Does EOS Technology Do For Me?

Our new Electro-Optical Sensor lowers the cost of ownership by doing away with the annual replacements of the O₂ sensor and reducing calibration drifting typically found with standard electro-chemical sensors. This long life sensor is warranted for 5 years and has an unmatched industry-leading life expectancy of 10 years!



Does Technology Have To Be Complex?

No, if a product is designed right it should make your tasks easier. We've designed this combustion meter with that thought in mind. During startup, simply turn the meter dial to select the desired fuel, when ready select the measurement parameter and start testing the performance of your combustion equipment. No complex buttons. No detailed navigation.



Will The Smart Bell Really Save Me That Much Time?

Traditional methods using “dumbbell” shakers often take 15 to 20 minutes to perform and only provide a snap shot of a system's performance. Once adjustments are made the process needs to be repeated to verify that the corrections achieved the desired result. Don't be fooled by instruments that only sample results instead of reading them. A snap shot of a system's performance, through traditional or digital means, is not actual combustion testing. The Smart Bell provides instantaneous and continuous reading while adjustments are being made giving you real-time results and saving precious time.



Should I Buy A Combustion Meter Or Analyzer?

The Smart Bell is designed for contractors currently testing with traditional wet chemical kits, new to combustion testing, or where the cost of a high-end analyzer may be a prohibiting factor. The Smart Bell is a great first step into measuring a system's performance and overall digital combustion technology.





SMART BELL FEATURES

- Real Time Analysis
- NEW EOS Technology
 - Direct CO₂ Measurements
 - No Sensor Replacements
 - Extended Long Life CO₂ Sensor
- Measures
 - CO₂ Carbon Dioxide
 - Flue Temperature
- Calculates
 - O₂
 - Efficiency
 - Excess Air
 - Net Temperature
- Pre-Programmed Fuels
 - Light Oil, Propane, Natural Gas, Heavy Oil, and Wood
- 5 Year Limited Warranty (10 year sensor life expectancy)
- Includes
 - Probe, Storage Case, Owner's Manual and Quick Start Guide

SMART BELL
Combustion Meter

Measures:
CO₂
Flue Temp
Calculates:
O₂
Net Temp
Efficiency
Excess Air
EOS Technology



EAGLE I: C75
Combustion Analyzer

Measures:
O₂
CO
Flue Temp
Calculates:
CO₂
Net Temp
Efficiency
Excess Air
Features:
Time & Date
Printing Capabilities
20 Memory Positions
2 Line Display



EAGLE II: C125
Combustion System Analyzer

Measures:
O₂
CO
Inlet Temp/Flue Temp
Hi-Res Pressure (select 0.01"/0.001" w/g)
Calculates:
CO₂
Net Temp
Efficiency
Excess Air
Differential Temp (T1-T2)
Differential Pressure (P1-P2)
Features:
CO Data Logger
Heater Exchange Test
Customizable Auxiliary Screen
Individual Test Printouts
Programmable Headers
Field Replacement Sensor
179 Memory Positions
4 Line Display



EAGLE III: C127

All EAGLE II: C125 Features
Plus
NOx Measurements



SMART BELL SPECIFICATIONS

Parameter	Resolution	Accuracy	Range
Temp Measurement Flue Temperature	1.0 °F	±(0.3% reading ±5 °F (2°C))	32-1112 °F (0-600°C)
Temp (Net) **	1.0 °F	±(0.3% reading ±5 °F (2°C))	32-1112 °F (0-600°C)
Gas Measurement			
Carbon Dioxide *	0.1%	±0.2% reading	0-30%
Efficiency **	0.1%	±1.0% reading	0-99.9%
Excess Air ***	0.1%	±0.2%	0-250%
Pre-Programmed Fuels	Natural Gas, Light Oil, Propane, Wood, Heavy Oil.		
Dimensions (approximate) Weight Handset Probe	1 l b 7" x 2" x 3/4" 4" x 1/4" stainless steel shaft nominal 36" neoprene hose.		
Ambient Operating Range	+32°F to 104°F 10% to 90% RH non- condensing 850 to 1100 mmHg atmospheric pressure		
Battery Life	4 AA cells >8 hours using Alkaline AA cells		
* Using dry gases at STP ** Calculated *** Calculated assuming fuel lean combustion.			

You'll love this
STUFF

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USA 1-800-547-5740 • Fax: (503) 643-6322
www.ueitest.com • Email: info@ueitest.com

CANADA 1-877-475-0648 • Vancouver Fax: (604) 278-8299
Toronto Fax: (905) 238-5117

EUROPE +44 1707 375550 • Fax: +44 1707 393277

