



Advanced Combustion Analyzer

ACA



Combustion Analysis For Commercial Boilers and Furnaces



BACKED BY



What Matters

- ✓ **UEI Service+ Guaranteed FOR LIFE!**
- ✓ **CO, CO₂, and O₂ Gases Measured**
- ✓ **Wireless to App, UEI HUB**

Features

- Ambient CO₂ readings to test building IAQ
- Integrate optional wireless probes
- CO over-range pump protection from high CO levels
- High-contrast graphic display
- **UEI LOCK** Theft Protection: Coming Soon (details below)
- **UEI Concierge+** 15-min analyzer review with a tech
- CO sensor, 10,000ppm H₂ Compensated & NO_x filtered
- CO₂ sensor (flue or ambient)
- O₂ sensor
- Differential Pressure and draft
- Flue and Inlet Temperature, differential temperature
- Combustion Efficiency and Excess Air
- Heat Exchanger test
- Room CO test
- Optional NO (Nitric Oxide) sensor upgradable
- Protective Boot with built-in magnetic mount
- Low Flow Detection to protect reading accuracy
- Flue probe with integrated gas, temperature, and draft hose connections
- Protective water trap
- Calibration countdown reminders
- Optional thermal printer for on-site hard copy printouts

**UEI
SERVICE+
GUARANTEED!
FOR LIFE**

Our industry-leading, award-winning promise to never let you down. Each annual recertification offers an additional 1-year warranty, for the working life of the analyzer. See details on back and complete details at uitest.com/service.

**UEI
LOCK**

An optional anti-theft feature that can be turned on through the App **UEI HUB** to help prevent use if stolen. - **Coming Soon.**



**UEI
CONCIERGE+**

Active **UEI Concierge+** service by registering your ACA at uitest.com for details on how to book a 15-minute call with a certified technician. It's your time to ask anything from general setup, specific testing, or utilizing **UEI Service+ Guaranteed!**



UEI Analyzers are **Calibrated Fresh** before shipping.

DESIGNED BY
MADE BY
BACKED BY
UEI



Backed by An Award-Winning Promise To Never Let You Down



Warranty: All UEi combustion analyzers have a standard 1-year warranty. Annual recertification will extend the warranty for an additional year. **UEi Service+ Guaranteed! FOR LIFE** means UEi will offer this extended warranty each year for the working life of the analyzer.

Transparent Pricing: Contractors who book recertification at www.ueitest.com/service within 12 months from either the date of purchase or the date of the last recertification will receive reduced service pricing¹ that lowers the cost of ownership and 2 additional benefits:

Same Day Recertification: All qualifying analyzers received for recertification through UEi Service+ are returned on the same business day. **Guaranteed*** (ACAN analyzers with nitric oxide sensor turnaround is 48 hours Guaranteed).

Free Shipping: UEi Service+ offers free shipping both to and from our service center. When customers book their recertification, they receive a prepaid UPS Ground shipping label.

Details at UEiTST.COM/Service



Specifications

TEMPERATURE MEASUREMENT



Parameter	Range	Resolution	Accuracy
Flue temperature	32° to 1112°F	0.1°F	±(0.3% rdg +3.6°F (2°C))
Inlet temperature (internal sensor)	32° to 112°F	0.1°F	+1.8°C +0.3% rdg
Inlet temperature (external sensor)	32° to 1112°F	0.1°F	+3.6°F +0.3% rdg

FLUE GAS

Parameter	Range	Resolution	Accuracy
Oxygen*	0 to 21%	0.1%	+0.3% Volume
Carbon Monoxide*	0 to 2000ppm		±3ppm or ±5% of rdg
	2000 to 9999ppm		±10% of rdg
	Above 9999ppm		Unspecified
Carbon Dioxide*	0 to 20%	0.1%	0.3% rdg
Efficiency (Net or Gross)	0 to 99.9%	0.1%	+1.0% rdg
Efficiency High (C)	0 to 119.9%	0.1%	+1.0% rdg
Excess Air	0 to 250%	0.1%	+0.2% rdg
CO/CO ₂ ratio	0 to 0.999%	0.0001	+5% rdg

* Using dry gases at STP

PRESSURE (DIFFERENTIAL)

Parameter	Range	Resolution	Accuracy
Pressure (Differential)	±80mbar	0.1mbar	±0.5% FSD
PRE-PROGRAMMED FUELS			NAT GAS, H OIL, PELLETS, OIL, LPG, BUTANE, PROPANE
USER PROGRAMMED FUELS			5 User defined fuels
STORAGE CAPACITY			45 Total Tests

ACA Includes & Kit Options

	ACA	ACAKIT	ACAN	ACANKIT
ACA Analyzer	✓	✓	✓	✓
Flue Probe (CP30)	✓	✓	✓	✓
Rechargeable Batteries, 3 (AA)	✓	✓	✓	✓
USB Charging Cable (AAC45)	✓	✓	✓	✓
K-Type Thermocouples, 2 (ATT29)	✓	✓	✓	✓
Hard Carrying Case (AC509)	✓	✓	✓	✓
Particle Filter (spare) (17631)	✓	✓	✓	✓
Quick Start Guide	✓	✓	✓	✓
Certificate of Calibration	✓	✓	✓	✓
IR Thermal Printer (IRP-2)	✓			✓
Thermal Paper Roll (spare (16646))	✓			✓
Nitric Oxide sensor			✓	✓

Wireless Capability

SCAN FOR FREE APP **UEi HUB**



Operate meter, graph, log and email results from App.

Downloads



Manual

Data Sheet



Made in
UNITED KINGDOM