



COMBUSTION LINE COMPARISON

UEi's 2023 Combustion Analyzer Line

**YOUR ANALYZER,
YOUR WAY!**

BACKED BY


**UEi
SERVICE+**



RESIDENTIAL



COMMERCIAL

	C160	C161	C161OIL	C163	C165+	C165+N
Eligible for UEi Service+	•	•	•	•	•	•
CO2 (Carbon Dioxide)	•	•	•	•	•	•
O2 (Oxygen)	•	•	•	•	•	•
Efficiency, Excess Air	•	•	•	•	•	•
Differential Temperature	Flue Temp	•	•	•	•	•
CO (Carbon Monoxide)		•	•	•	•	•
Differential Pressure				•	•	•
NO (Nitric Oxide) sensor installed						•
Low Flow Detection	•	•	•	•	•	•
High Altitude Compensation	•	•	•	•	•	•
NOx Protected CO Sensor		•	•	•	•	•
Heat Exchanger Test		•	•	•	•	•
Purge Pump Protection for CO Sensor				•	•	•
Wireless to Printer App				•	•	•
 LINK to 2 Wireless Pipe Clamps					•	•
H2 Compensated, 10,000 ppm CO Sensor					•	•
Wireless Pipe Clamps (2) Included					•	•
Smoke Pump Tester (for oil-fired units)			•			

Confirm installation & maintenance to factory standards

Cut back on Carbon Monoxide risks

Control fuel costs

DESIGNED BY
MADE BY

UEi

USA 1.800.547.5740

COMBUSTION ANALYZERS

C161 UPC: 053533508338

Residential Combustion Analyzer



BACKED BY
UEI
SERVICE+

10
YEAR
WARRANTY

8
HR
SERVICE

ups
FREE
SHIPPING

Measures

- CO, CO2, Flue Temperature, Inlet temperature

Calculates

- O2, Differential Temperature, Efficiency (Net, Gross), Excess Air

Features

- Up to 10-year warranty with annual recertification
- Eligible for UEI Service+
- Large 6-line backlit display
- Heat Exchanger test
- 2 levels of sensor protection
- NOx filtered CO sensor
- Low Flow Detection
- High altitude compensation
- Temperature Differential w/ K-Type probe inputs
- Protective water trap

Pre-Programmed Fuels

- Natural Gas, Propane, LPG, Light Oil, Heavy Oil, Bio Oil, Pellets, Butane

AVAILABLE C161 OPTIONS

	C161	C161C	C161KIT	C161OIL	C161OILKIT
UPC	053533508338	053533509250	053533509236	053533509373	053533509366
Analyzer/Probe (CP2)	•	•	•	•	•
Batteries 3 (AA)/ Charging Cable (ACA5)	•	•	•	•	•
Carrying Case (AC509)		•	•	•	•
K-type Temp Probes (ATT29)/ Spare Filter (17631)			•	•	•
Printer (IRP-2)/ Spare Paper Roll (16646)			•		•
Smoke Pump Test Kit (SPT1)				•	•

COMBUSTION ANALYZERS

AVAILABLE C165+ OPTIONS

	C165+	C165+KIT	C165+OIL	C165+OILKIT
UPC	053533509151	053533509168	053533509182	053533509212
Analyzer/Probe (CP2)	•	•	•	•
Batteries 3 (AA)/Charging Cable (AAC45)	•	•	•	•
Carrying Case (AC509)	•	•	•	•
K-type Temp Probes (ATT29)/Spare Filter (17631)	•	•	•	•
Wireless Pipe Clamps (WPC2)	•	•	•	•
Tubing w/ Connector (11000)	•	•	•	•
Printer (IRP-2)/Spare Paper Roll (16646)		•		•
Smoke Pump Test Kit (SPT1)			•	•

AVAILABLE C165+N OPTIONS W/ NITRIC OXIDE (NO) SENSOR

	C165+N	C165+NKIT	C165+NOIL	C165+NOILKIT
UPC	053533509175	053533509205	053533509199	053533509229
Analyzer/Probe (CP2)	•	•	•	•
Batteries 3 (AA)/Charging Cable (AAC45)	•	•	•	•
Carrying Case (AC509)	•	•	•	•
K-type Temp Probes (ATT29)/Spare Filter (17631)	•	•	•	•
Wireless Pipe Clamps (WPC2)	•	•	•	•
Tubing w/ Connector (11000)	•	•	•	•
Printer (IRP-2)/Spare Paper Roll (16646)		•		•
Smoke Pump Test Kit (SPT1)			•	•

COMBUSTION ANALYZERS

C165+ UPC: 053533509151

Residential/Commercial Combustion Analyzer



BACKED BY
UEI
SERVICE+

10
YEAR
WARRANTY

8
HR
SERVICE

ups
FREE
SHIPPING

Measures

- CO
- CO2
- Differential Pressure
- Flue and Inlet Temperature

Calculates

- O2
- Differential Temperature
- Efficiency (Net, Gross)
- Excess Air

Features

- Up to 10-Year warranty with annual recertification
- Eligible for UEI Service+
- LINK to wireless probes
- Wireless Flow and Return Probes
- NOx filtered & H2 Compensated CO sensor (10,000ppm range)
- 3 levels of sensor protection
- Over-range protection pump
- NOx filtered CO sensor
- Low Flow Detection
- Compatible with DTHA2

Pre-Programmed Fuels

- Natural Gas, Propane, Butane, LPG, Light Oils (28/35sec), Wood Pellets, Town Gas, Coke Gas, Bio Oil, Bio Gas



Essential information in 1 device for installing and maintaining furnaces and boilers.

- **LINK** provides wireless information in real time on the C165+ without a device or APP.
- **LINK** Connects to included WPC2 Wireless Pipe Clamps or optional DTHA2 Wireless Temperature Humidity Airflow Adapter.



WWW.UEITEST.COM

COMBUSTION, DETECTORS & MORE



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UEi
SERVICE+

10
YEAR
WARRANTY

8
HR
SERVICE

ups
FREE
SHIPPING

C160 UPC: 053533508321
Residential Combustion Meter

Measures

- O2, Flue Temperature, Inlet Temperature

Calculates

- CO2, Efficiency, Excess Air

Features

- Up to 10-year warranty w/ annual recertification
- Eligible for UEi Service+
- Large 6-line backlit display
- Entry level analyzer
- High altitude compensation
- 8 pre-programmed fuels

Includes

- Flue Probe
- Charging cable

\$499.95 TNP



COA2 UPC: 053533508475
*Carbon Monoxide Detector
w/ Wireless Capabilities*

- CO Detection: 1 to 999 ppm
- Resolution: 1 ppm
- iOS® and Android™ compatible
- Use alone or connect to a smart device
- Visual LED and Audible alert
- 1-Year limited warranty

IRP-2 UPC: 053533606911
*Easy Load Fast Printer IR Link
(Combustion)*



CD100A UPC: 053533503708
Combustible Gas Leak Detector

- Minimum detection: 50 ppm methane
- Long 18 inch gooseneck
- Tip-light in sensor cap
- Audible and visual tic rate
- 1-Year limited warranty

CP2 UPC: 053533508918
*Flue Gas Probe for C160 Series
Combustion Analyzers*



USA 1.800.547.5740

COMBUSTION ANALYZERS

C163 UPC: 053533508352

Residential/Commercial Combustion Analyzer w/ Pressure



BACKED BY
UEI
SERVICE+

10
YEAR
WARRANTY

8
HR
SERVICE

ups
FREE
SHIPPING

Measures

- CO, CO2, Differential Pressure, Flue and Inlet Temperature

Calculates

- O2, Differential Temperature, Efficiency (Net, Gross), Excess Air

Features

- Up to 10-year warranty with annual recertification
- Eligible for UEi Service+
- Differential Pressure
- 3 levels of sensor protection
- Over-range protection pump
- NOx filtered CO sensor
- Low Flow Detection
- Large 6-line backlit display
- Temperature Differential w/ K-Type probe inputs
- Protective water trap

Pre-Programmed Fuels

- Natural Gas, Propane, LPG, Light Oil, Heavy Oil, Bio Oil, Pellets, Butane

AVAILABLE C163 OPTIONS

	C163	C163KIT
UPC	053533508352	053533509243
Analyzer/Probe (CP2)	•	•
Batteries 3 (AA)/Charging Cable (AAC45)	•	•
Carrying Case (AC509)	•	•
K-type Temp Probes (ATT29)/Spare Filter (17631)	•	•
Tubing w/ Connector (11000)	•	•
Printer (IRP-2)/Spare Paper Roll (16646)		•

AIR FLOW & TEMPERATURE



DAFM3B UPC: 053533507188
*Digital Anemometer w/
Humidity Tester*

- Measures: air velocity, temperature and humidity
- Calculates: wet bulb, dew point, and air volume (CFM/CMM)
- Up to 1 hour accumulative average
- 1-Year limited warranty

DAFM4 UPC: 053533506877
*Digital In-Duct Mini
Vane Anemometer*



- Measures: air velocity
- Calculates: air volume, dew point, wet bulb
- In-duct or grill surface measurement
- Telescoping anemometer vane
- 1-Year limited warranty



DTHA2 UPC: 053533508420
*Airflow Temperature
Humidity Psychrometer*

- Free App iOS® and Android™
- Airflow 217 to 3937 ft/sec
- Temperature 0° to 122°F
- Relative Humidity 0.1% to 99.9% RH
- 1-Year limited warranty



DTH35 UPC: 053533506938
Digital Pocket Psychrometer

- Measures: temperature, relative humidity
- Calculates: wet bulb, dew point, enthalpy
- 1-Year limited warranty



PDT650 UPC: 053533701289
Folding Pocket Thermometer

- Temp range: -58° to 572°F (-50° to 300°C)
- Folding probe tip measures in any position
- 3-Year limited warranty



PDT655 UPC: 053533508543
*Differential Back Fold
Pocket Thermometer*

- Large easy-to-read backlit display
- Large easy to use buttons
- Measures T1, T2, T1-T2
- 1-Year limited warranty



PDT660 UPC: 053533508451
Pocket Thermometer NSF

- Temperature: -58° to 572°F
- Backlit display
- Approx. 1/sec update rate
- 1-Year limited warranty



550B UPC: 053533701173
Pocket Thermometer NSF

- Temperature range: -58° to 572°F
- NSF listed
- Water resistant
- 3-Year limited warranty



INF165C UPC: 053533507416
12:1 Infrared Thermometer

- Circular laser targeting
- 12:1 Distance-to-spot ratio
- Temperature range: -76° to 1022°F (-60° to 550°C)
- Max value capture
- 1-Year limited warranty



INF195C UPC: 053533507423
*12:1 Infrared Thermometer
w/ K-Type Input*

- Circular laser targeting
- 12:1 Distance-to-spot ratio
- Temp range: -76° to 1022°F
- K-Type thermocouple input
- 1-Year limited warranty

PRESSURE MANOMETERS

EM720 UPC: 053533509359 *Hi-Res Differential Manometer*

- Measures Pressure ± 80 inWC
- Temperature compensation protects sensor accuracy from ambient temperature sources.
- HOLD MIN/MAX/AVG
- Capture
- Ambient temperature measurement
- 1-Year limited warranty



EM720SPKIT UPC: 053533509458 *Hi-Res Differential Manometer Static Pressure Kit*

- EM720 Manometer *plus*
- Stepped T Fitting (2)
- Static Pressure Probe (2)
- Pressure Tubing w/ Brass Fitting (2)
- Step connector w/ 3.15" tubing (2)
- 60" Pressure Tube
- 3 (AA) Batteries
- 1-Year limited warranty



EM152 UPC: 053533507492 *Dual Differential Manometer*

- Dual input differential in 11 scales
- Hold/Min/Max/Avg
- Record with elapsed time stamp
- Pressure zero
- Backlit display
- 1-Year limited warranty



EM201B UPC: 053533506907 *Hi-Res Differential Manometer*

- Dual input to ± 60 inches water column
- Measure in inches water column (inWC), mBar, psi and Pa (auto range to hPa)
- Dynamic Min/Max value capture
- 3-Year limited warranty



EM201SPKIT UPC: 053533506235 *Static Pressure Kit (EM201B, ASP1 (2), Tubing, T Fitting)*

- Dual input to ± 60 inches water column
- Measure in inches water column
- Dynamic Min/Max value capture
- 3-Year limited warranty

CLAMP METERS

Award Winning True RMS Clamp Meters

DL599

UPC: 053533509137



BACKED BY
UEI
QUALITY

2
YEAR
WARRANTY

TRUE RMS
ACCURACY

SAFETY
KELTOP

Designed by us:

- Dual Display
- True RMS Measurement
- Convenient Test Lead Storage
- Easy-access battery compartment
- Magnet options for hands-free use
- Worklight (DL599 & DL589 only)
- Back Probes for Molex plugs and mini-splits (DL599 & DL589 only)



DL589

UPC: 053533509144



BACKED BY
UEI
QUALITY

2
YEAR
WARRANTY

TRUE RMS
ACCURACY

SAFETY
KELTOP

Made by us

- Independently certified to the current IEC standards
- Low Z Ghost Voltage protection
- 2-year limited warranty (DL599 & DL589 only)

DL579

UPC: 053533509274



BACKED BY
UEI
QUALITY

1
YEAR
WARRANTY

TRUE RMS
ACCURACY

SAFETY
KELTOP

DL599 Upgrades

- Connect to free App
- Confirm motor direction with 3-phase testing
- Protect from Variable Frequency Drives with Low Pass Filter

Accessories



ATTPC4

K-Type Pipe Clamp
Probe (grip style)



ATL58

CATIV Test Leads (Silicone)
w/ Back Probe Leads
(DL599 & DL589)



ATL55

CATIV Test Leads
(Standard)



ATT29A

Temperature Probe, J-Type,
Fluoroplastic coated

Clamp Meter Combo Kits

Part #	UPC	Description
DL589COMBO	053533509335	600A True-RMS Dual Display Clamp Meter w/ DC Amps & Differential Temperature and 2 ATTPC4
DL579COMBO	053533509342	600A True-RMS Dual Display HVAC/R Clamp Meter w/ Temperature & Capacitance w/ ATTPC4

CLAMP LINE COMPARISON

Part #	DL599	DL589	DL579	DL569
UPC	053533509137	053533509144	053533509274	053533509281
TRMS	•	•	•	
AC Volts	1000V	750V	750V	750V
DC Volts	1000V	1000V	1000V	1000V
AC current (amps)	600A	600A	600A	400A
DC current (amps)	600A	600A		
Resistance (Ohms)	60MΩ	60MΩ	60MΩ	40kΩ
Continuity/Diode	•	•	•	•
Capacitance (Farads)	9999μF	2000μF	6000μF	
AC/DC microamps	2000μA	2000μA	2000μA	
Frequency (Hertz)	99.99Hz - 99.99kHz	99.99Hz - 99.99kHz	99.99Hz - 99.99kHz	
Duty cycle	•	•	•	
Low Z (impedance)	•	•	•	
LRA inrush	•	•	•	
Temperature (K-type input)	-328° to 2462°F	-328° to 2462°F	-328° to 2462°F	
NCV (LED & Audible)	•	•	•	
Min/Max	•	•	•	•
Hold	Data/Peak	Peak Hold	•	•
Ranging	Auto/Man	Auto/Man	Auto/Man	Auto
Display count	6000 (3 5/6 dgt)	6000 (3 5/6 dgt)	6000 (3 5/6 dgt)	4000 (3 3/4 dgt)
Auto power off / Low battery warning	•	•	•	•
Test lead storage	•	•	•	•
Dual display	•	•	•	•
High voltage alert	•	•	•	•
Auto Calibration	•	•	•	•
Easy access battery latches	•	•	•	•
Backlight	•	•	•	
Magnetic mount/strap	•	•	<i>Optional</i>	<i>Optional</i>
Worklight	•	•		
Temperature differential	•	•		
DC Zero	•	•		
Auto AC/DC selection for V/A	•			
Wireless to app	•			
3-Phase motor rotation test	•			
Motor unbalanced test	•			
Low pass filter	•			
Safety Rating	CATIV 600V CATIII 1000V	CATIV 600V CATIII 1000V	CATIV 300V CATIII 600V	CATIV 300V CATIII 600V
Warranty	2-year limited	2-year limited	1-year limited	1-year limited

WIRELESS REFRIGERATION PROBES

View All Indoor and Outdoor AC/R System Parameters from One Location

Wireless Vacuum Gauge Probe

Target Superheat Calculation

Pressure Probes w/ 180° Articulation

Refrigerant Pass Through Port

Wireless Pipe Clamps



HUB8 UPC: 053533508598

Smart Refrigeration Probes Deluxe Kit w/ Vacuum Gauge

HUB6 UPC: 053533508246

Smart Refrigerant Complete Kit

- In App temperature split and psychrometric calculations
- In App system refrigerant charging calculations
- Pass thru refrigerant ports for easily adding or recovering refrigerant from the system
- 180 degree rotation for easy use in cramped spaces
- 1-Year limited warranty



WVG2 UPC: 053533508604

Wireless Vacuum Gauge Probe

- Vacuum Range: 2000 microns
- 700 PSI (36200446.8716772 microns) Maximum Over Range
- Temperature Range: 10 to 122 °F
- Easy to use vacuum gauge probe
- 1-Year limited warranty



HUB4 UPC: 053533508239

Smart Refrigerant Charging Kit

- In App system refrigerant charging calculations
- Pass through refrigerant ports for easily adding or recovering refrigerant from the system
- 180 degrees rotation for easy use in cramped spaces
- Pressure range: 0 to 725 psig
- 1-Year limited warranty



WOT2 UPC: 053533508611

Wireless Outside Temperature Probe

- Temperature Range: 32° to 180°F
- Works in two positions
- Real time target superheat calculation (With WHP1)
- Calculate Real Time Target Superheat (requires a WHP1 & the HUB App)
- 1-Year limited warranty



UEi HUB

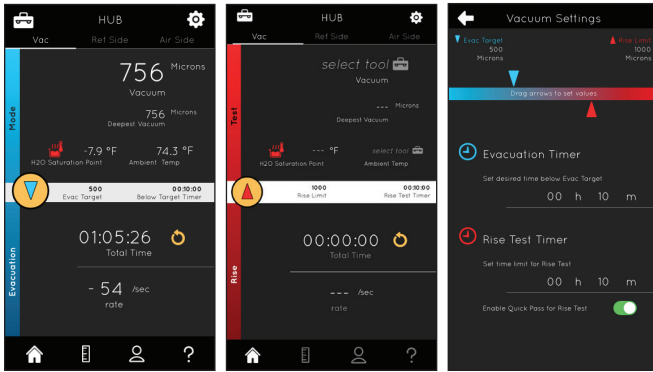


Measurement & Calculations

- Liquid and Suction line pressures, temperatures, saturations and outdoor dry bulb
- Superheat, subcooling and target superheat
- Delta and target delta temperatures
- Air Return and supply relative humidity, dry bulb, wet bulb, dew point and enthalpy
- Vacuum & deepest vacuum
- Evacuation and rise Limit target, timer
- H2O saturation point indication
- Selectable units of measure
- High altitude compensation
- 118 refrigerants list and favorites menu

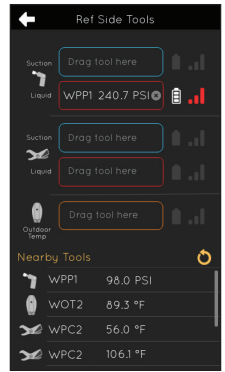
Vacuum Screen

Dual Mode Vacuum screen for Evacuation and Rise Tests.
Allows you to easily set Evacuation and Rise Tests values and timer.



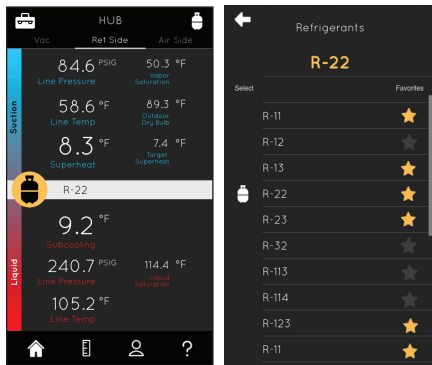
Quick Connections

Easily assign where probes are used on system.



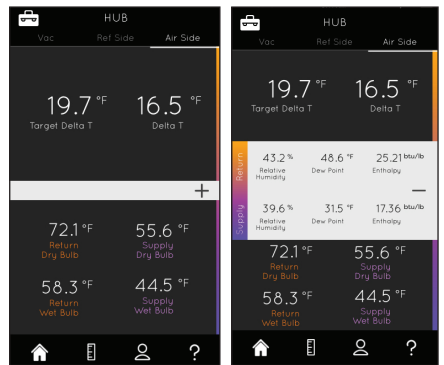
Refrigeration Screen

View Refrigerant values and *real-time target superheat*.
Select from list of 57 refrigerants and save most used types.



Air Side Screen

Air Side screen displays return & supply measurements
allowing users to view additional calculations.



Requires compatible mobile device
Android™ 5+, iOS® 10+ or iPadOS™ 10+

HUB is compatible with measureQuick® (except WVG2 wireless vacuum gauge)

REFRIGERATION & OTHER ITEMS



RLD15B

UPC: 053533507430

Refrigerant Leak Detector w/ Solid Electrolyte Sensor

- A2L certified (SAE J2913)
- 3 Sensitivity levels
- Digital numeric leak size indicator
- 2-Year limited warranty



DMG150

UPC: 053533507720

Digital Vacuum Micron Gauge

- Range: 0 to 15,000 microns
- Oil contamination sensor and sensor fail detection
- Real time leak measurement
- Instant warm up time
- 1-Year limited warranty

Wireless Refrigeration Scales



WRS110

UPC: 053533507584

Smart Wireless Refrigeration Scale 110 lb.

- Measurements can be made on uneven ground
- Load can be weighed accurately even if uncentered
- Requires compatible mobile device and free iOS® or Android™ App
- Wireless range up to 100 ft (30m)
- Water resistance and dust proof
- 1-Year limited warranty



WRS220

UPC: 053533507577

Smart Wireless Refrigeration Scale 220 lb.

- Measurements can be made on uneven ground
- Load can be weighed accurately even if uncentered
- Requires compatible mobile device and free iOS® or Android™ App
- Wireless range up to 100 ft (30m)
- Water resistance and dust proof
- 1-Year limited warranty



WRSX

UPC: 053533581195

Smart Wireless Refrigeration Scale, High Capacity

- Measurements can be made on uneven ground
- Load can be weighed accurately even if uncentered
- 330 pound capacity
- Use compatible mobile device and free iOS® or Android™ App or display
- Water resistance and dust proof
- 1-Year limited warranty

OTHER ITEMS AVAILABLE

Part #	UPC	Description
HA1	053533500752	Hermetic Compressor Analyzer
DT304	053533505634	Quad Input Logging Thermometer
DT302	053533505627	Dual Input Logging Thermometer
RLD10	053533503937	Refrigerant Leak Detector
CLM100	053533503289	Cable Length Meter
AORK1	053533508390	WPP1 O-Ring Replacement Kit for HUB probes



5 Essential Kits to Help You Install & Maintain Heating and Cooling Equipment



510KIT

UPC 053533509380

Condensing Unit Install Kit

True RMS Clamp Meter (DL579)
Refrigerant Leak Detector (RLD15B)
Wireless Refrigeration Analyzer (HUB8)
UEi Tool Backpack



511KIT

UPC 053533509397

Heat Pump Install Kit

Static Pressure Manometer Kit (EM201SPKIT)
True RMS Clamp Meter (DL579)
Refrigerant Leak Detector (RLD15B)
Wireless Refrigeration Analyzer (HUB8)
UEi Tool Backpack



520KIT

UPC 053533509403

Furnace Install Kit

True RMS Clamp Meter (DL579)
Combustible Leak Detector (CD100A)
Static Pressure Kit (EM201SPKI)
Differential Thermometer (PDT655)
UEi Tool Backpack



521KIT

UPC 053533509410

Gas Furnace Install Kit

Carbon Monoxide Detector (COA2)
True RMS Clamp Meter (DL579)
Combustible Leak Detector (CD100A)
Static Pressure Kit (EM201SPKIT)
Differential Thermometer (PDT655)
UEi Tool Backpack



522KIT

UPC 053533509427

Oil Furnace & Boiler Install Kit

Combustion Analyzer (C1610IL)
True RMS Clamp Meter (DL579)
Combustible Leak Detector (CD100A)
Static Pressure Kit (EM201SPKIT)
Differential Thermometer (PDT655)
UEi Tool Backpack

MULTIMETERS & INSULATION RESISTANCE TESTERS

Part #	UPC	Description
DM525	053533508192	True RMS 1000V Wireless Multimeter w/ Power Factor
DM515	053533508185	True RMS 1000V Multimeter w/ Temperature
DM505	053533508178	1000V Digital Multimeter
IRT807	053533508147	1000V AC/DC Advanced Insulation Resistance Tester
IRT803	053533508130	600V AC/DC Digital Insulation Resistance Tester

UEi SERVICE+

We've Got You Covered!

Complete Care for your Combustion Analyzer

BACKED BY



10
YEAR
WARRANTY



10 Year Warranty: All UEi combustion analyzers have a standard 1-year warranty. Each recertification extends the warranty for 1 more year for up to **10 years** from the date of purchase.

Contractors who book recertification of a C160 series analyzer 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 Service: All qualifying analyzers received for recertification through UEi Service+ are returned on the same business day.²

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.

That's UEi Service+!

See complete details at ueitest.com/service

¹Pricing subject to change without notice.

²We'll need 48 hours for analyzers with a NO (Nitric Oxide) sensor installed.