



BTU4500

Gas Analyzer for Emissions Monitoring of Boilers, Furnaces, Commercial & Industrial Applications

Accurate / Reliable / Robust / Fast

- Up to **FOUR** (4) Gas Sensors
- Automatic Data Logging
- Total NOx Capable
- Draft & Differential Pressure
- Dilution Pump for CO Auto-Range Measurements up to 10,000 ppm
- Combustion Efficiency
- PC Software with Bluetooth®



O₂, CO, NO, NO₂, SO₂, CxHy (HC)



Field Replaceable Sensors



Built-In Printer
Non-Fading Paper



PC Software with Bluetooth®



Full Color Graphic Display



iOS and Android Mobile Applications

Parameter	Sensor	Range	Resolution	Accuracy
O ₂	Electrochemical	0 - 25 %	0.1 %	±0.2 % vol
CO H ₂ compensated w/ built-in NOx filter	Electrochemical	0 - 8000 ppm	1 ppm	±8 ppm <200 ppm ±5 % rdg up to 2000 ppm ±10 % rdg for >2000 ppm
CO diluted	Electrochemical	0.8 - 10.00 %	0.1 %	±10 % rdg
CO ₂	Calculated	0 - 99.9 %	0.1 %	
NO	Electrochemical	0 - 5000 ppm	1 ppm	±5 ppm <100 ppm ±5 % rdg for >100 ppm
NO ₂	Electrochemical	0 - 1000 ppm	1 ppm	±5 ppm <100 ppm ±5 % rdg for >100 ppm
Low NO	Electrochemical	0 - 100.0 ppm	0.1 ppm	±1.5 ppm <40 ppm ±5 % rdg for <100ppm
NOx	Calculated	0 - 5000 ppm	1 ppm	
SO ₂	Electrochemical	0 - 5000 ppm	1 ppm	±5 ppm <100 ppm ±5 % rdg for >100 ppm
CxHy (HC)	Pellistor	0 - 5 %	0.01 %	±5 % full scale
Tair	Pt100	-4 to 248 °F -20 to 120 °C	0.1 °F 0.1 °C	±1 °F ±1 °C
Tgas	Tc K	-4 to 2280 °F -20 to 1250 °C	0.1 °F 0.1 °C	±2 °F ±2 °C
Differential Temperature	Calculated	-4 to 2280 °F -20 to 1250 °C	0.1 °F 0.1 °C	-
Pressure/Draft	Semiconductor	-4 to 80 inH ₂ O -10 to 200 mbar	0.001 inH ₂ O 0.01 mbar	±1 % rdg.
Excess air	Calculated	0 - 850 %	1 %	-
Efficiency	Calculated	0 - 100 %	0.1 %	-

Ordering Information

Model #	Description
BTU4500-2	BTU4500 with O ₂ , CO, Upgradeable to NO/NOx Gas Sensor
BTU4500-3	BTU4500 with O ₂ , CO, Standard NO/NOx Gas Sensors, Upgradeable to 4th Gas Sensor
BTU4500-3 Low	BTU4500 with O ₂ , CO, Low Range NO/NOx (0 - 100.0 ppm) Sensors
BTU4500-N	BTU4500 with O ₂ , CO, Standard NO/NOx, NO₂ Gas Sensors & CO Dilution Auto-Range to 10 %
BTU4500-S	BTU4500 with O ₂ , CO, Standard NO/NOx, SO₂ Gas Sensors & CO Dilution Auto-Range to 10 %
BTU4500-C	BTU4500 with O ₂ , CO, Standard NO/NOx, CxHy Gas Sensors & CO Dilution Auto-Range to 10 %

Standard Probe & Hose:

- 12" (300mm) Probe
- 1470 °F (800 °C) max
- 10' (3m) Dual Hose

Long Probe & Hose:

- 30" (750mm) Probe
- 1470 °F (800 °C) max
- 10' (3m) Dual Hose

Long & High Temp Probe & Hose:

- 40" (1m) Probe or 60" (1.5m) Probe
- 2190 °F (1200 °C) max
- 10' (3m) Hose

Hose Extensions:

- 10' (3m) Length Available



All BTU4500 Kits Include:

- Built-In Printer
- New iOS & Android App (Remote Display & QR Scanning)
- CO₂ % Calculation
- Combustion Efficiency, Losses, & Excess Air Calculations
- Draft & Differential Pressure
- Incoming Air Temperature for Condensing Boilers
- Temperature Measurements
- Large Color Display
- 2000 Test Internal Memory
- Bluetooth Connectivity
- Long Lasting Rechargeable Battery & AC Charger
- Gas Sampling Probe & Hose
- Water Trap with Filter Cartridge
- Magnetic Rubber Holster
- PC Software & USB Cable
- Operating Manual
- Calibration Certificate
- ABS Hard Carrying Case

