



# S500

## PORTABLE COMBUSTION ANALYZER

### Economical / Easy / Reliable / Accurate

- 2 or 3 gas sensors (O<sub>2</sub>, CO, CO<sub>2</sub>, NO, NO<sub>x</sub>)
- 6 tools in one
- 15 Programmed fuels (including #2 Oil, #4 Oil, #6 Oil, natural gas, propane, wood, biofuel and more)
- Built in pressure manometer
- Bluetooth® connectivity
- Automatic generation of QR code to acquire analysis with smartphone
- Draft measurement
- Cracked heat exchanger test
- Ambient CO monitoring
- CO Air free
- High Altitude adjustment



Field Replaceable Sensors



Easy to use



O<sub>2</sub>, CO, CO<sub>2</sub> Gas Sensors  
(NO<sub>x</sub> upgradable)



Rechargeable Lithium ion batteries



Optional Wireless Bluetooth® printer



Mobile App - iOS, Android



For all High Efficiency Condensing Systems



 **Bluetooth®**



Seitron Smart Analysis

GET IT ON  
Google Play

Download on the  
App Store

EXPLORE IT ON  
AppGallery



### Every KIT includes

- Analyzer
- Protective, Magnetic Rubber Holster
- Flue gas Probe 12" with 5' dual hose
- Water trap
- Power supply adapter
- Hard carrying case
- Calibration Certificate
- Quick Guide

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MEASUREMENT	SENSOR	RANGE	RESOLUTION	ACCURACY	
O2	Electrochemical	0 .. 25.0% vol	0.1% vol	±0.2% vol	
CO high immunity H2 with NOx filter	Electrochemical	0 .. 4000 ppm	1 ppm	±20 ppm ±5% measured value	0 .. 400 ppm 401 .. 4000 ppm
NO	Electrochemical	0 .. 2000 ppm	1 ppm		
NOx	Calculated	0 .. 2000 ppm	1 ppm		
CO2	Calculated	0 .. 99.9% vol	0.1% vol		
Air temperature	TcK sensor	-4.0 .. 248.0 °F -20.0 .. 120.0 °C	32.18 °F 0.1 °C	±33.8 °F ±1 °C	
Flue gas temperature	TcK sensor	-4.0 .. 1472.0 °F -20.0 .. 800.0 °C	32.18 °F 0.1 °C	±33.8 °F (±1 °C) ±1% measured value	32 .. 212 °F (0 .. 100 °C) 213.8 .. 1472 °F (101 .. 800 °C)
Pressure (draft & differential)	Piezo Resistive	-40.1 .. +80.4 inH <sub>2</sub> O	0.004 inH <sub>2</sub> O	±1% measured value ±0.08 inH <sub>2</sub> O ±1% measured value	-40.1 .. -0.81 inH <sub>2</sub> O -0.80 .. +0.80 inH <sub>2</sub> O +0.81 .. +80.4 inH <sub>2</sub> O
Temperature Differential	Calculated	31.0 .. 1472.0 °F 0 .. 800.0 °C	0.1 °C		
Air index	Calculated	0.00 .. 9.50	0.01		
Excess air	Calculated	0 .. 850 %	1 %		
Stack losses	Calculated	0.0 .. 100.0 %	0.1 %		
Efficiency	Calculated	0.0 .. 120.0 %	0.1 %		
Warranty	2 Years on Analyzer and 2 Years on Sensors				

**Standard Kit Details:**

- O2, CO, CO2
- Upgradeable to NO/NOx
- Combustion Efficiency, Losses,
- Excess Air
- CO Air Free
- Draft Measurement
- Pressure Measurement
- Temperature Measurements
- Long Lasting Rechargeable Battery & AC Charger
- Gas Sampling Probe & Hose
- Water Trap with Filter Cartridge
- Magnetic Rubber Holster
- Operating Manual
- Calibration Certificate
- IR Interface
- ABS Carrying Case
- Outdoor Air Calculations for Condensing Systems

**All S500 Kits Include:**

- 12" (300mm) probe
- 1112 °F (600 °C) max
- 5' (1.5m) Dual Hose

**Optional Wireless Bluetooth® Printer**

Model	Description
S500-1	S500 Basic Kit = Analyzer with O2, CO, CO2, Efficiency, Excess Air, Draft, Pressure, Temp., Rechargeable Battery & AC Plug, 5' (1.5m) Dual Hose, 12" (300mm) Probe, Water Trap, ABS Case, Calibration Certificate, Operating Manual, Cheat Sheet, Calculations for High Efficiency & Condensing Systems includes. QR code Smartphone App. No Bluetooth®
S500-2	S500 Pro Kit = Analyzer with O2, CO, CO2, Efficiency, Excess Air, Draft, Pressure, Temp., Rechargeable Battery & AC Plug, 5' (1.5m) Dual Hose, 12" (300mm) Probe, Water Trap, ABS Case, Calibration Certificate, Operating Manual, Cheat Sheet, Calculations for High Efficiency & Condensing Systems. Includes Bluetooth® & QR code Smartphone Apps.
S500-2P	S500 Plus Kit = Standard S500-2 Pro Kit with Wireless Bluetooth® Printer
S500-3	S500 NOx Kit O2, CO, Standard NO, NOx
S500-3P	S500-3 NOx Kit with Wireless Bluetooth® Printer