



S500

PORTABLE COMBUSTION ANALYZER

Economical / Easy / Reliable / Accurate

- 2 or 3 gas sensors (O₂, CO, CO₂, NO, NO_x)
- 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



O₂, CO, CO₂ Gas Sensors
(NO_x 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

| 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 |
| NO | Electrochemical | 0 .. 2000 ppm | 1 ppm | 0 .. 400 ppm 401 .. 4000 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 |
| Pressure (draft & differential) | Piezo Resistive | -40.1 .. +80.4 inH ₂ O | 0.004 inH ₂ O | 32 .. 212 °F (0 .. 100 °C) 213.8 .. 1472 °F (101 .. 800 °C) |
| Temperature Differential | Calculated | 31.0 .. 1472.0 °F 0 .. 800.0 °C | 0.1 °C | ±1% measured value ±0.08 inH ₂ O ±1% measured value |
| Air index | Calculated | 0.00 .. 9.50 | 0.01 | -40.1 .. -0.81 inH ₂ O -0.80 .. +0.80 inH ₂ O +0.81 .. +80.4 inH ₂ O |
| 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 |