

## HVAC CATALOG COMBUSTION ANALYZERS - RESIDENTIAL & COMMERCIAL



## PROGRAMMABLE THERMOSTATS - GAS LEAK DETECTORS



## HVAC Combustion Analysis

The portable Seitron instruments are designed to help maximize combustion efficiency, for easily setting up, installation and maintenance of any residential and / or commercial boiler, and furnace/boiler.

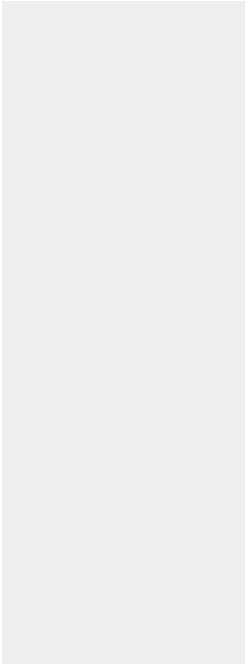
The gas combustion analyzers series **S500, S1500-NP, S1500-P, S4500** are dedicated to HVAC professionals in order to provide the necessary instruments to perform the job in a quick and correct way.

In fact, Seitron combustion analyzers are the ideal solution to monitor boiler and burner processes.

All of our analyzers are designed and manufactured in Italy to provide high quality, compact design, strong build and easy to use instruments.



Applications:



Combustion Analysis of Residential Systems



Commercial Systems

High Efficiency, Condensing

# Residential HVAC

## Combustion Analyzers Selection Guide



PARAMETERS	S500-1	S500-2	S500-2P	S1500-NP	S1500-P
# of Gases	2	2-3	2-3	2	2
O <sub>2</sub> Long Life, 0 - 25.0%	-	-	-	✓	✓
O <sub>2</sub> Standard Sensor	✓	✓	✓	-	-
CO <sub>2</sub> (Calculated from O <sub>2</sub> ), 0 - 100%	✓	✓	✓	✓	✓
CO Measurement w/ NOx Filter, 0 - 4000 ppm	✓	✓	✓	-	-
CO Measurement w/ NOx Filter, 0 - 8000 ppm	-	-	-	✓	✓
Calculated Combustion Efficiency	✓	✓	✓	✓	✓
Ambient Temperature Measurement	✓	✓	✓	✓	✓
Stack Temperature Measurement	✓	✓	✓	✓	✓
Pressure Manometer	✓	✓	✓	✓	✓
Draft Measurement	✓	✓	✓	✓	✓
Excess Air	✓	✓	✓	✓	✓
Ambient CO Monitor	✓	✓	✓	✓	✓
CO Air Free	✓	✓	✓	✓	✓
High Altitude Adjustment	✓	✓	✓	✓	✓

### FEATURES

Built-In Printer (Non-Fading Paper)	-	-	-	-	✓
Wireless Bluetooth® Printer	-	Optional	✓	Optional	-
FIELD-REPLACEABLE Pre-Calibrated Sensors	✓	✓	✓	✓	✓
Mobile App + QR code	(*)	(*)	(*)	✓	✓
PC Software	-	-	-	✓	✓
Combustion Efficiency Measurements for All Atmospheric & Condensing Systems	✓	✓	✓	✓	✓
Internal Memory (# of Tests)	5	5	5	2000	2000
Rechargeable Battery w/ AC Charger	✓	✓	✓	✓	✓
Display Screen	One color	One color	One color	Multicolor	Multicolor
Carrying Case	Hard	Hard	Hard	Hard	Hard

(\*): Mobile App only for QR code

# Commercial HVAC

## Combustion & Emissions Analyzers Selection Guide



PARAMETERS	S1500-NP	S1500-P	S500-3	S500-3P	S4500-3	S4500-4
# of Gases	2	2	2-3	2-3	3-4	4
O <sub>2</sub> Long Life, 0 - 25.0%	✓	✓	-	-	✓	✓
O <sub>2</sub> Standard, 0 - 25.0%	-	-	✓	✓	-	-
CO, (Calculated from O <sub>2</sub> ), 0 - 100%	✓	✓	✓	✓	✓	✓
CO Measurement w/NO <sub>x</sub> filter, 0 - 8000 ppm	✓	✓	-	-	✓	✓
CO Auto Dilution (0 - 10%) High Range	✓	✓	-	-	✓	✓
NO <sub>x</sub> included 5,000 ppm	-	-	✓	✓	✓	✓
Low-NO <sub>x</sub> Capable 0 - 500.0 ppm	-	-	-	-	✓	✓
TOTAL NO <sub>x</sub> (NO + NO <sub>2</sub> Included)	-	-	-	-	-	✓
Ambient Temperature Measurement	✓	✓	✓	✓	✓	✓
Stack Temperature Measurement	✓	✓	✓	✓	✓	✓
Differential Pressure Manometer	✓	✓	✓	✓	✓	✓
Draft Measurement	✓	✓	✓	✓	✓	✓
Excess Air Measurement	✓	✓	✓	✓	✓	✓
Ambient CO Monitor	✓	✓	✓	✓	✓	✓
Capable of measuring NO <sub>2</sub> , SO <sub>2</sub> , CxHy	-	-	-	-	-	✓
High Altitude Adjustment	✓	✓	✓	✓	✓	✓

### FEATURES

Built-In Printer (Non-Fading Paper)	-	✓	-	-	✓	✓
Wireless Bluetooth® Printer	Optional	✓	Optional	✓	-	-
FIELD-REPLACEABLE Pre-Calibrated Sensors	✓	✓	✓	✓	✓	✓
Mobile App + QR code	✓	✓	(*)	(*)	✓	✓
PC Software	✓	✓	-	-	✓	✓
Automatic data Logging	✓	✓	✓	✓	✓	✓
Combustion Efficiency Measurements for All Atmospheric & Condensing Systems	✓	✓	✓	✓	✓	✓
Internal Memory (# of Tests)	2000	2000	5	5	2000	2000
Rechargeable Battery w/ AC Charger	✓	✓	✓	✓	✓	✓
Display Screen	Multicolor	Multicolor	One color	One color	Multicolor	Multicolor
Carrying Case	Hard	Hard	Hard	Hard	Hard	Hard

(\*): Mobile App only for QR code

# Combustion analyzers

CO<sub>2</sub> / CO / O<sub>2</sub> / Efficiency / Temperature / Pressure



O<sub>2</sub>, CO, CO<sub>2</sub>  
(optional NO, NO<sub>x</sub>)



O<sub>2</sub>, CO, CO<sub>2</sub>



O<sub>2</sub>, CO, CO<sub>2</sub>

## Economical S500

- Easy to use, Entry level
- Android and iOS QR code App included
- Field replaceable sensors

## Paperless S1500-NP

- Android and iOS QR code App included
- PC software included
- Field replaceable sensors
- Automatic CO protection

## All in One S1500-P

- Android and iOS QR code App included
- Built in printer
- PC software included
- Field replaceable sensors
- Automatic CO protection



O<sub>2</sub>, CO, NO<sub>x</sub>,  
SO<sub>2</sub>, NO<sub>2</sub>, CxHy

## Emissions S4500

- Built in printer
- Dilution pump for CO protection up to 100,00 ppm
- TOTAL NO<sub>x</sub> Capable
- Low NO<sub>x</sub> Capable



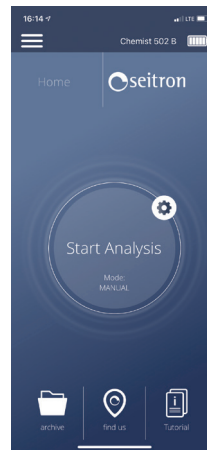
## Ambient CO Probe AASC01

Range: 0 .. 500.0ppm  
Accuracy: ±5 ppm up to 100.0 ppm  
±5% measured value up to 500.0 ppm



## Gas Leak Detectors 7900 / 7899

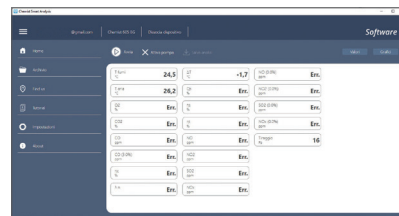
- Natural gas, Propane, Methane and all combustible gases
- Field replaceable sensor
- Hold: auto zero



## APP Seitron Smart Analysis



- Data logging
- Report creation
- QR code App or real time
- Email reports from the jobsite



## SOFTWARE Windows SW



- Remote display of real-time analysis from the portable analyzer and data saving
- Display and/or export and stored data
- Analyzer configuration



# 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



### 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	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



# S1500-NP

## PAPERLESS COMBUSTION ANALYZER

### Fast / Easy / Robust / Accurate

- O<sub>2</sub>, CO, CO<sub>2</sub>
- 6 Tools in one
- 15 Programmed fuels (including #2 Oil, #4 Oil, #6 Oil, Natural gas, Propane, Biofuel, Wood, more)
- Full color display
- Smartphone Real Time + QRcode App (iOS, Android)
- Built in Pressure Manometer
- Draft/Differential Pressure
- CO Air free
- Ambient CO monitoring
- CO Sensor protection
- Cracked Heat Exchanger Test
- PC Software Included
- High Altitude adjustment



Seitron Smart Analysis



Windows Software  
Seitron Smart Analysis



### Features

- Combustion Efficiency, Losses, Excess Air
- CO sensor protection
- Draft & Differential Pressure
- Temperature Measurements
- Large Color Display
- 2000 Test Internal Memory
- Bluetooth Connectivity
- Long Lasting Rechargeable Battery & AC Charger
- Gas Sampling Probe & Hose

Field Replaceable Sensors



O<sub>2</sub>, CO, CO<sub>2</sub> Gas Sensors



Full color Graphic Display



Optional Wireless Bluetooth® printer



Mobile App - iOS, Android



For all High Efficiency Condensing Systems



MEASUREMENT	SENSOR	RANGE	RESOLUTION	ACCURACY
O <sub>2</sub> Long life	Electrochemical	0 .. 25.0% vol	0.1% vol	±0.2% vol
CO sensor with Over Range protection (NOx filter)	Electrochemical	0 .. 500 ppm	0.1ppm	±2 ppm ±5% measured value
		501 .. 8000 ppm	1 ppm	±5% measured value ±10% measured value
CO <sub>2</sub>	Calculated	0 .. 99.9% vol	0.1% vol	0 .. 40.0 ppm 40.1 .. 500.0 ppm
Air Temperature	TcK sensor	-4.0 .. 2282.0 °F -20.0 .. 1250.0 °C	32.18 °F 0.1 °C	±0.5 °C ±0.5%
Stack Temperature	TcK sensor	-4.0 .. 2282.0 °F -20.0 .. 1250.0 °C	32.18 °F 0.1 °C	±0.5 °C ±0.5%
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
Differential Temperature	Calculated	32.0 .. 2282.0 °F 0 .. 1250.0 °C	0.1 °C	-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
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 .. 100.0 %	0.1 %	
Warranty	4 years on Sensors and 2 years on Analyzer			

### S1500-NP Kits Include:

- O<sub>2</sub>, CO, CO<sub>2</sub>
- 12" (300mm) probe
- 1112 °F (600 °C) max
- 5' (1.5m) Dual Hose
- CO Air Free
- Dual Tck for condensing systems
- Dual pressure manometer
- Longer & High Temperature Probes available
- Cracked Heat Exchanger Test Included
- Plug and Play Pre-Calibrated Field Replaceable Sensors
- 32 Programmed Fuels & Oils (Including Bio-Fuel)
- Metal Connection
- Hard carrying case
- Magnetic rubber holster
- Operation manual
- Calibration certificate
- Li-Ion Battery
- AC Charger
- AACKP02 Pressure hoses



Pressure Hoses



Wireless Bluetooth® Printer

Model	Description
S1500-NP	Paperless Kit= Analyzer w/ O <sub>2</sub> , CO, CO <sub>2</sub> , Efficiency, Excess Air, Draft, Pressure, Temp, Rechargeable Battery & AC Plug, 12" (300mm) Probe with 5' (1.5m) Dual hose, Differential pressure hoses, ABS Case, Calibration Certificate, Operating Manual, Cheat Sheet, Water Trap, Paper Roll, 2000 Internal Data Storage, PC Software, Bluetooth™ Connectivity, Differential Pressure Manometer Kit (1 Hose), Automatic Outdoor Air Temperature Saving for ALL 90%+ Systems & Condensing Systems for TRUE Efficiency Calculations + iOS and Android App Included
S1500-NP-OIL	Standard 1500-NP Kit plus Oil smoke pump, smoke filters and comparison chart



# S1500-P

## ALL IN ONE COMBUSTION ANALYZER

### Fast / Easy / Robust / Accurate

- Built In Printer
- O<sub>2</sub>, CO, CO<sub>2</sub>
- 15 Preprogrammed fuels (including #2 Oil, #4 Oil, #6 Oil, Natural gas, Propane, Biofuel, Wood, more)
- Full color display
- Smartphone Real Time + QRcode App (iOS, Android)
- Built in Pressure Manometer
- Draft/Pressure included
- CO Air free
- Dilution pump for CO Auto range up to 100,000 ppm
- Ambient CO monitoring
- CO Sensor protection
- Cracked Heat Exchanger Test
- PC Software Included
- High Altitude adjustment



Built-in printer



Field Replaceable Sensors



O<sub>2</sub>, CO, CO<sub>2</sub> Gas Sensors



Full color Graphic Display



Mobile App - iOS, Android



For all High Efficiency Condensing Systems



Seitron Smart Analysis



Windows Software  
Seitron Smart Analysis



### Features

- Combustion Efficiency, Losses, Excess Air
- CO sensor protection
- Draft & Differential Pressure
- Temperature Measurements
- Large Color Display
- 2000 Test Internal Memory
- Bluetooth Connectivity
- Long Lasting Rechargeable Battery & AC Charger
- Gas Sampling Probe & Hose

MEASUREMENT	SENSOR	RANGE	RESOLUTION	ACCURACY
O <sub>2</sub> Long life	Electrochemical	0 .. 25.0% vol	0.1% vol	±0.2% vol
CO sensor with Over Range protection (NOx filter)	Electrochemical	0 .. 500 ppm	0.1ppm	±2 ppm ±5% measured value
		501 .. 8000 ppm	1 ppm	±5% measured value ±10% measured value
CO <sub>2</sub>	Calculated	0 .. 99.9% vol	0.1% vol	0 .. 40.0 ppm 40.1 .. 500.0 ppm
Air Temperature	TcK sensor	-4.0 .. 2282.0 °F -20.0 .. 1250.0 °C	32.18 °F 0.1 °C	±0.5 °C ±0.5%
Stack Temperature	TcK sensor	-4.0 .. 2282.0 °F -20.0 .. 1250.0 °C	32.18 °F 0.1 °C	±0.5 °C ±0.5%
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
Differential Temperature	Calculated	32.0 .. 2282.0 °F 0 .. 1250.0 °C	0.1 °C	-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
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 .. 100.0 %	0.1 %	
Warranty	4 years on Sensors and 2 years on Analyzer			

### S1500-P Kits Include:

- O<sub>2</sub>, CO, CO<sub>2</sub>
- 12" (300mm) probe
- 1112 °F (600 °C) max
- 5' (1.5m) Dual Hose
- Dual TcK for condensing systems
- Dual pressure manometer
- Longer & High Temperature Probes available
- Cracked Heat Exchanger Test Included
- Plug and Play Pre-Calibrated Field Replaceable Sensors
- 32 Programmed Fuels & Oils (Including Bio-Fuel)
- Metal Connection
- Hard carrying case
- Magnetic rubber holster
- Operation manual
- Calibration certificate
- Li-Ion Battery
- AC Charger
- AACKP02 Pressure Hoses



Pressure Hoses

Model	Description
S1500-P	All In One Kit= Analyzer w/ O <sub>2</sub> , CO, CO <sub>2</sub> , Efficiency, Excess Air, Draft, Pressure, Temp, Rechargeable Battery & AC Plug, 12" (300mm) Probe with 5' (1.5m) Dual hose, ABS Case, Calibration Certificate, Operating Manual, Cheat Sheet, Water Trap, Paper Roll, 2000 Internal Data Storage, PC Software, Bluetooth™ Connectivity, Differential Pressure Manometer Kit (1 Hose), Automatic Outdoor Air Temperature Saving for ALL 90%+ Systems & Condensing Systems for TRUE Efficiency Calculations + iOS and Android App Included
S1500-P-OIL	Standard S1500-P Kit plus Oil smoke pump, smoke filters and comparison chart



# S4500

## COMMERCIAL / INDUSTRIAL EMISSIONS ANALYZER

**Fast / Easy / Robust / Accurate**

- **Built In Printer**
- up to 4 gas (O<sub>2</sub>, CO, NO, NO<sub>2</sub>, CO<sub>2</sub>, SO<sub>2</sub>, CxHy (HC))
- Low NOx Available
- Total NOx Available (NO+NO<sub>2</sub>)
- Automatic data logging
- Dilution pump for CO Auto range up to 100,000 ppm
- Smartphone Real Time + QRcode App (iOS, Android)
- Built in Pressure Manometer
- Draft & Differential Pressure
- PC Software Included
- High Altitude adjustment

 **Bluetooth®**



**Seitron Smart Analysis**



**Windows Software  
Seitron Smart Analysis**



### Features

- Combustion Efficiency, Losses, Excess Air
- CO sensor protection
- Draft & Differential Pressure
- Temperature Measurements
- Large Color Display
- 2000 Test Internal Memory
- Bluetooth Connectivity
- Long Lasting Rechargeable Battery & AC Charger
- Gas Sampling Probe & Hose

**Built-in printer**



**Field Replaceable Sensors**



**O<sub>2</sub>, CO, CO<sub>2</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>, CxHy (HC)  
Gas Sensors**



**Full color Graphic Display**



**Mobile App - iOS, Android**



**For all High Efficiency Condensing Systems**



MEASUREMENT	SENSOR	RANGE	RESOLUTION	ACCURACY	
O <sub>2</sub> Long life	Electrochemical	0 .. 25.0% vol	0.1% vol	±0.2% vol	
CO sensor w/ Over Range protection NOx filter	Electrochemical	0 .. 500 ppm	0.1ppm	±2 ppm ±5% measured value	0 .. 40.0 ppm 40.1 .. 500.0 ppm
		501 .. 8000 ppm	1 ppm	±5% measured value ±10% measured value	501 .. 2000 ppm 2001 .. 8000 ppm
CO <sub>2</sub>	Calculated	0 .. 99.9% vol	0.1% vol	-	
Low NO Standard NO	Electrochemical	0 .. 500 ppm	0.1ppm	±2 ppm ±5% measured value	0 .. 40.0 ppm 40.1 .. 500.0 ppm
		501 .. 5000 ppm	1 ppm	±5% measured value	501 .. 5000 ppm
Low NO <sub>2</sub> Standard NO <sub>2</sub>	Electrochemical	0 .. 500 ppm	0.1ppm	±2 ppm ±5% measured value	0 .. 40.0 ppm 40.1 .. 500.0 ppm
		501 .. 1000 ppm	1 ppm	±5% measured value	501 .. 1000 ppm
Low SO <sub>2</sub> Standard SO <sub>2</sub>	Electrochemical	0 .. 500 ppm	0.1ppm	±2 ppm ±5% measured value	0 .. 40.0 ppm 40.1 .. 500.0 ppm
		501 .. 5000 ppm	1 ppm	±5% measured value	501 .. 5000 ppm
NOx	Calculated	-	-	-	
CxHy (HC)	Pellistor	0 .. 5%	0.01 %	±5% full scale	
Air Temperature	Pt100	- 4 to 248 °F - 20 to 120 °C	33.8 °F 0.1 °C	33.8 °F 0.1 °C	
Gas Temperature	TcK	- 4 to 2280 °F - 20 to 1250 °C	33.8 °F 0.1 °C	33.8 °F 0.1 °C	
Differential temperature	Calculated	- 4 to 2280 °F - 20 to 1250 °C	0.1 °C	-	
Pressure/Draft	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
Excess air	Calculated	0 .. 850%	1%	-	
Efficiency	Calculated	0 .. 100%	0.1%	-	
Warranty	4 years on Sensors and 2 years on Analyzer				



#### Standard Probe Detail:

- 12" (300mm) probe
- 1112 °F (600 °C) max
- 10' (3m) Dual Hose

#### Long Probe Detail:

- 30" (750mm) probe
- 1472 °F (800 °C) max
- 10' (3m) Dual Hose

#### Long & High Temp Probe Detail:











- 40" (1m) Probe or 60" (1.5m) probe
- 2192 °F (1200 °C) max
- 10' (3m) Hose

#### Hose Extention:



- 10' (3m) Length Available

Model	Description
S4500-2	S4500 with O <sub>2</sub> , Low CO Gas Sensors, Upgradable to NO/NOx Gas Sensor
S4500-3	S4500 with O <sub>2</sub> , CO, Standard NO/NOx Gas Sensors, Upgradable to 4th Gas Sensor
S4500-3-Low	S4500 with O <sub>2</sub> , Low CO, Low NO/NOx Gas Sensors, Upgradable to 4th Gas Sensor
S4500-N	S4500 with O <sub>2</sub> , CO, Standard NO/NOx, Standard NO <sub>2</sub> Gas Sensors
S4500-N-Low	S4500 with O <sub>2</sub> , Low CO, Low NO/NOx, Low NO <sub>2</sub> Gas Sensors
S4500-S	S4500 with O <sub>2</sub> , CO, NO/NOx, SO <sub>2</sub> Gas Sensors
S4500-S-Low	S4500 with O <sub>2</sub> , Low CO, Low NO/NOx, Low SO <sub>2</sub> Gas Sensors
S4500-C	S4500 with O <sub>2</sub> , CO, Standard NO/NOx, CxHy Gas Sensors
S4500-C Low	S4500 with O <sub>2</sub> , Low CO, Low NO/NOx, CxHy Gas Sensors

## ACCESSORIES AND SPARE PARTS

CODE	PHOTO	DESCRIPTION	S500	S1500-NP	S1500-1	S4500
AASF72A		12" (300 mm) flexible flue gas probe with 5' (1.5 m) cable	✓			
AASF82A		12" (300 mm) flexible flue gas probe with 5' (1.5 m) cable		✓	✓	✓
AASF62A		12" (300 mm) flexible flue gas probe with 10' (3 m) cable		✓	✓	✓
AASF65A		30" (750 mm) flexible flue gas probe with 10' (3 m) cable		✓	✓	✓
AASF66A		40" (1000 mm) flexible flue gas probe with 10' (3 m) cable		✓	✓	✓
AASA08		Outdoor air temperature 8 " (200 mm) TcK probe, with 6.5' (2 m) cable	✓	✓	✓	✓
AACTA03A		Water trap with dust filter, stainless steel fittings and silicon hose suitable for all combustion analyzers	✓	✓	✓	✓
AAPM02		Manual smoke pump for oil applications	✓	✓	✓	✓
AACKP02		Pressure kit (hoses + fittings) for manometer feature	✓	✓	✓	✓
AACEX01		10' (3 m) extension cable for flue gas probe		✓	✓	✓



CODE	PHOTO	DESCRIPTION	S500	S1500-NP	S1500-1	S4500
AATT01		"L" shaped Pitot Tube. 12" (300 mm) length, 0.24" (6 mm) external diameter. Without thermocouple	✓			
AATT02		"L" shaped Pitot Tube. 31.5" (800 mm) length, 0.24" (6 mm) external diameter. Without thermocouple		✓	✓	
AACFA01		Particulate filters for AACTA03A water trap	✓	✓	✓	✓
AACR09		Hard plastic kit case for S500	✓			
AACR10		Hard plastic kit case for S1500 / S4500		✓	✓	✓
AAZN01		Fabric bag with shoulder belt / backpack	✓	✓	✓	✓
AARC09		No-fading thermal paper roll for AAST04 wireless separate printer	✓	✓		
AARC10		No-fading thermal paper roll for built in printer (S1550, S4500)			✓	✓
AAST04		Thermal printer with Bluetooth® connection	✓	✓		
AAKA01		Power Adapter Kit For Analyzers; 90÷264V~ / 5V A2 = Power adapter with US plug adapter and USB A / USB B cable, 6.5' (2 m)	✓	✓	✓	✓

**S500 SENSORS**

GAS	RANGE	CODE
O2	0...25% v/v	AACSE50
CO high immunity H2 with NOx filter	0...4000 ppm	AACSE58
NO	0...2000 ppm	AACSE60



**S1500 / S4500 SENSORS**

GAS	RANGE	CODE
O2 Long Life	0...25% v/v	AACSE44
CO Low Range	0...500,0 ppm	AACSE24
NO Low Range	0...500 ppm	AACSE25
NO2 Low Range	0...500 ppm	AACSE26
SO2	0 .. 5000 ppm	AACSE13
SO2 Low Range	0 .. 500 ppm	AACSE28
CxHy	0...5.00% vol CH4	AACSE39





## 7899 . PORTABLE COMBUSTIBLE GAS LEAK DETECTOR

- => ppm => %vol => % L.E.L.
- 11" Flexible probe
- 6 "AAA" batteries
- Natural gas, Propane, Methane and all combustible gases
- Field replaceable sensor
- Hold: auto zero
- Lightweight
- Quick Response Time

## 7900 . PORTABLE COMBUSTIBLE GAS LEAK DETECTOR WITH RECHARGEABLE BATTERY

- => ppm => %vol => % L.E.L.
- 11" Flexible probe
- Rechargeable battery
- Natural gas, Propane, Methane and all combustible gases
- Field replaceable sensor
- Hold: auto zero
- Lightweight
- Quick Response Time
- AC Charger/Cord included



# Emissions Industrial analyzers

Portable Emissions Analyzer For Boiler, Engine, Furnace, Kiln  
& Other Combustion Applications

## S9000

An industrial transportable emissions analyzer with chiller, mainly used for industrial burners, cogeneration groups, gas turbines, industrial ovens and processes, laboratories and generally everywhere the need is to measure and register for long periods the gas emissions, in compliance with existing regulations.

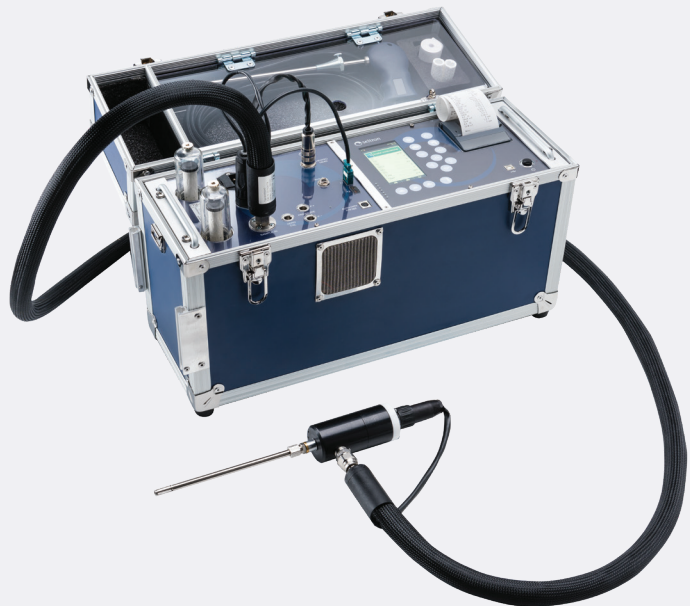


up to 12 gas sensors (9+3)  
O<sub>2</sub>, CO, CO<sub>2</sub>, NO<sub>2</sub>, NO, SO<sub>2</sub>,  
NO<sub>x</sub>, H<sub>2</sub>, H<sub>2</sub>S

with NDIR Bench: CO, CO<sub>2</sub>, HC



Heated probe and line available



## S9000-RACK

Dedicated to continuous measurement of industrial emissions and combustion analyzer, mainly used for industrial burners, cogeneration groups, gas turbines, industrial ovens and processes, laboratories and generally everywhere the need is to measure and register for long periods the gas emissions, in compliance with existing regulations.



up to 6 gas sensors (3+3)  
O<sub>2</sub>, CO, CO<sub>2</sub>, NO<sub>2</sub>, NO, SO<sub>2</sub>,  
NO<sub>x</sub>, H<sub>2</sub>, H<sub>2</sub>S

with NDIR Bench: CO, CO<sub>2</sub>, HC

# Programmable Thermostats



## FREETIME EVO

Daily Programmable Thermostats

- Easy to program
- New design
- 2 "AA" batteries
- 2 levels of T° regulation: Comfort and Economy
- Wall-mounted
- Suitable for controlling Heating and Cooling systems

# Wi-Fi Thermostats

## wi-time

Wi-Fi Programmable Thermostats

- WiFi Thermostat
- Touch Keys
- iOS, Android App
- Boost mode
- Monitor your consumption through the App



# Gas Leak Monitors



**BEAGLE** Methane, LPG, CO  
Residential gas leakage detector

- Alarm threshold 10%L.E.L.
- Sensor life 5 years
- Sensor type: SnO2 Semiconductor precalibrated (replaceable by user)

**SEGUGIO** Methane, LPG, CO  
Residential gas leakage detector

- Alarm threshold 10%L.E.L.
- Output relay
- Sensor life 5 years
- Sensor type: SnO2 Semiconductor precalibrated (replaceable by user)



# Maintenance and Service

A high-quality, up-to-date and certified instrument in compliance with current standards is essential in carrying out your work in the best possible way, while minimizing liability.

- Gases (O<sub>2</sub>, CO, CO<sub>2</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>, C<sub>x</sub>H<sub>y</sub>)
- Temperature
- Pressure
- Humidity
- Current
- Air Flow



## Services offered:

- Calibration
- Annual certification
- Training
- Repairs
- Field technical support in real time
- Field calibrations



**On-Site Services**



**CAL Adjustments**



**Training**

## CONTACT INFO

service@seitronamericas.com

Phone (215) 660-9777

Fax (215) 660-9770

For more information visit Customer Service page: [www.seitronamericas.com](http://www.seitronamericas.com)

# Training



## Class Topics Include

### Combustion Process:

- What is combustion?
- 3 T's of combustion (combustion theory)
- Excess air
- CO<sub>2</sub> (carbon dioxide)
- Direct O<sub>2</sub> vs. CO<sub>2</sub> (why measuring is important)
- CO (carbon monoxide)
- CO Safety
- Draft
- Heat exchanger test
- How to use analyzer
- Why perform combustion test and why use analyzers?

## Webinar Trainings Available!



## Class Counts for 2 NATE CEU Hours!



## The Gold Standard for HVACR Technician Certification

- Typical Combustion Results
- System Measuring points
- Why do we need to measure?
- How contractors can make money (\$\$) using an analyzer
- Atmospheric vs. High Efficiency condensing boilers / furnaces!
- Seitron's series of analyzers and leak detectors
- Combustible gas leak detection: soap bubbles vs. actual detection

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