

**NEW!**



# HVACR COMBUSTION & INSTRUMENTATION

**Residential, Commercial & Industrial Applications**



# Product Overview

## Combustion gas analyzers



E1500



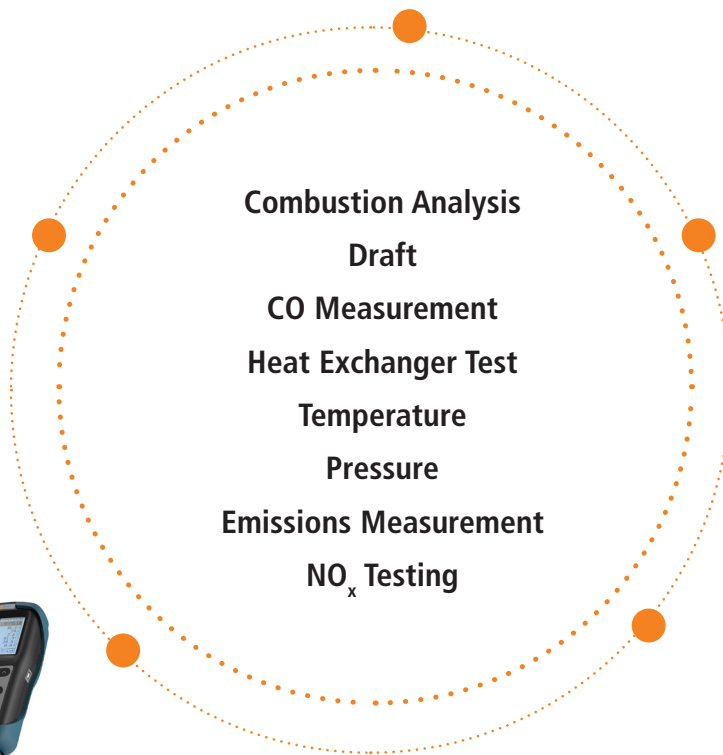
Si-CA 120



E4500



E500



PC and mobile Applications



Sauermann offers a complete range of innovative instrumentation solutions encompassing Combustion Gas Analyzers, Emissions Analyzers, Gas Leak detection and Indoor Air Quality designed and built for the residential, commercial, power, process, industrial, institutional, IAQ, and HVAC markets the HVAC Professional with Quality in Mind. Customer Support and Applications expertise are fundamental to Sauermann's success in providing high quality combustion gas analyzers.



# Combustion gas analyzers

Residential, Commercial & Industrial Applications

**Robust, ergonomic & compact, the Combustion Analyzers are easy-to-use. Their all-in-one functions: Combustion Gas Analysis, Emissions Measurements, Draft, Pressure, Differential Temperature, Ambient CO monitoring, and Heat Exchanger test make them the ideal tool for any HVAC Technician in any application.**

The range includes four instruments allowing measurements of many gases including:  $O_2$ , CO,  $CO_2$ , NO,  $NO_x$ ,  $NO_2$ ,  $SO_2$  and CxHy.

Mobile applications are available for both IOS & Android, and all devices have Bluetooth® function.





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



Field Replaceable Sensors  
Sensors Diagnostic



Built-In Printer  
(E1500)



Automatic, True High  
Efficiency Calculations for  
All Condensing Systems



Full Color Graphic Display



iOS and Android  
Mobile Applications



Optional wireless  
Bluetooth® printer  
(E500 & Si-CA120)



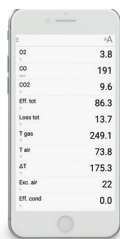
Long Lasting Rechargeable  
Battery & AC Charger



Automatic PC Software  
with Bluetooth®



**Applications**  
Windows PC and mobile  
(iOS & Android)



**Mobile**

- Real-time data reading
- Data logging
- Reports creation
- Si-CA QR Code app
- Email reports from the jobsite
- Real Time Bluetooth® or QR Code Apps Available

**PC**

- Instrument Data Identification Display
- Analyzer Configuration
- Remote Display of Real-Time Analysis from the Portable Analyzer and Automatic Data Saving
- Display and/or Exportation or Deletion of Stored Analysis



# Residential HVAC

## Combustion Analyzers Selection Guide



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500-1

500-2

500-2P



Si-CA-120

1500-1

### Parameters

O <sub>2</sub> Measurement, 0 - 25.0%	✓	✓	✓	✓	✓
CO <sub>2</sub> (Calculated from O <sub>2</sub> ), 0 - 100%	✓	✓	✓	✓	✓
CO Measurement w/ NOx Filter, 0 - 4,000 ppm	✓	✓	✓	-	-
CO Measurement w/ NOx Filter, 0 - 8,000 ppm	-	-	-	✓	✓
Calculated Combustion Efficiency	✓	✓	✓	✓	✓
Ambient Temperature Measurement	✓	✓	✓	✓	✓
Stack Temperature Measurement	✓	✓	✓	✓	✓
Differential Pressure Manometer	✓	✓	✓	✓	✓
Draft Measurement	✓	✓	✓	✓	✓
Excess Air Measurement	✓	✓	✓	✓	✓
Ambient CO Monitor	✓	✓	✓	✓	✓

### Features

Built-In Printer (Non-Fading Paper)	-	-	-	-	✓
Wireless Bluetooth® Printer	-	Optional	✓	Optional	-
FIELD-REPLACEABLE Pre-Calibrated Sensors	✓	✓	✓	✓	✓
Mobile App  	-	✓	✓	✓	✓
PC Software & USB Cable	-	-	-	✓	✓
Combustion Efficiency Measurements For All Atmospheric & Condensing Systems	✓	✓	✓	✓	✓
Internal Memory (# of Tests)	5	5	5	2,000	2,000
Rechargeable Battery w/ AC Charger	✓	✓	✓	✓	✓
Display Screen	One Color	One Color	One Color	Multicolor	Multicolor
Carrying Case	ABS	ABS	ABS	Vinyl/ABS	Vinyl/ABS

# Commercial HVAC

## Combustion Analyzers Selection Guide

NEW!



Si-CA-120

1500-1

500-3

500-3P


4500-3

4500-4

### Parameters

# of Gases	2	2	2-3	2-3	3-4	4
O <sub>2</sub> Measurement, 0 - 25.0%	✓	✓	✓	✓	✓	✓
CO <sub>2</sub> (Calculated from O <sub>2</sub> ), 0 - 100%	✓	✓	✓	✓	✓	✓
CO Sensor w/ NOx Filter, 0 - 8,000 ppm	✓	✓	✓	✓	✓	✓
CO Auto Dilution (0 - 10%) High Range	-	-	-	-	✓	✓
NO/NOx Sensor 0 - 5,000 ppm	-	-	✓	✓	✓	✓
TOTAL NOx (NO + NO <sub>2</sub> Included)	-	-	-	-	✓	✓
Low NOx Sensor 0 - 100.0 ppm	-	-	-	-	✓	✓
Combustion Efficiency & Losses	✓	✓	✓	✓	✓	✓
Ambient Temperature Measurement	✓	✓	✓	✓	✓	✓
Stack Temperature Measurement	✓	✓	✓	✓	✓	✓
Differential Pressure Manometer	✓	✓	✓	✓	✓	✓
Draft Measurement	✓	✓	✓	✓	✓	✓
Excess Air Measurement	✓	✓	✓	✓	✓	✓
Ambient CO Monitor	✓	✓	✓	✓	✓	✓

### Features

BUILT-IN Printer (Non-Fading Paper)	-	✓	-	-	✓	✓
Wireless Bluetooth® Printer	Optional	-	Optional	✓	-	-
FIELD-REPLACEABLE Pre-Calibrated Sensors	✓	✓	✓	✓	✓	✓
Mobile App  	✓	✓	✓	✓	✓	✓
PC Software & USB Cable & Bluetooth®	✓	✓	-	-	✓	✓
Automatic Data Logging	-	-	-	-	✓	✓
Combustion Efficiency Measurements For All Atmospheric & Condensing Systems	✓	✓	✓	✓	✓	✓
Internal Memory (# of Tests)	2,000	2,000	5	5	2,000	2,000
Rechargeable Battery w/ AC Charger	✓	✓	✓	✓	✓	✓
Display Screen	Multicolor	Multicolor	Single color	Single color	Multicolor	Multicolor

# Combustion analyzers

Gas analysis / Temperature / Pressure

- 6 Tools-In-One
- Flue and Ambient Temp
- Ambient CO Monitor
- Built-In Manometer
- Combustion Efficiency
- Draft & Pressure
- Smartphone Apps
- High Altitude Adjustment



## ECONOMICAL E500

- Economical & easy to use
- iOS and Android mobile apps
- True high-efficiency calculations for all condensing systems



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

## COMPACT Si-CA-120

- Field replaceable sensors
- iOS and Android mobile apps
- Auto-zero in the flue
- Automatic true high-efficiency calculations for all condensing systems



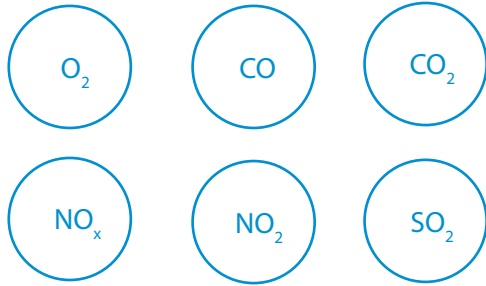
O<sub>2</sub>, CO, CO<sub>2</sub>

## ESSENTIAL All-In-One E1500

- Built-in non-fading printer
- Field replaceable sensors
- iOS and Android mobile apps
- Automatic true high-efficiency calculations for all condensing systems



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



## CO MONITOR C050

- CO and temperature
- Built-in probe
- 2-Line display
- 20 min auto shut-off
- 0 to 500 ppm CO



## EMISSIONS E4500

- Built-in non-fading printer
- Up-to four (4) gases:  
O<sub>2</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, NO<sub>2</sub>, C<sub>x</sub>H<sub>y</sub>
- Total NOx capable
- Upgradeable to add more gases
- Dilution Pump for CO Auto-Range Measurement up to 100,000 ppm
- Combustion efficiency

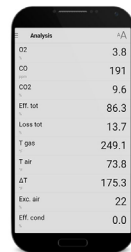


O<sub>2</sub>, CO, NO, NO<sub>2</sub>,  
SO<sub>2</sub>, C<sub>x</sub>H<sub>y</sub> (HC)



## GAS SNIFFER 7899

- Auto zero-drift adjustment
- Visual and audible alarms
- LCD and bar graph display
- 0 to 10,000 ppm CH<sub>4</sub>
- 11" flexible probe



## APP Si-CA Mobile App

- Real-time data reading
- Data logging
- Reports creation
- Si-CA QR Code app
- Email reports from the jobsite
- Real Time Bluetooth or QR Code Apps Available



## SOFTWARE PC

- Instrument Data Identification Display
- Analyzer Configuration
- Remote Display of Real-Time Analysis from the Portable Analyzer and Data Saving
- Display and/or Exportation or Deletion of Stored Analysis