

# FLUE GAS ANALYZERS PORTABLE INSTRUMENTS

## 2026 CATALOGUE

# Seitron



**For 45 years, we have been designing technological evolution at the service of professionals**

Since 1981, Seitron has represented Italian excellence in **thermoregulation, gas safety, and instruments for combustion, emissions and refrigeration analysis.**

Our figures demonstrate our deep-rooted solidity: **45 years of history**, a widespread presence in **80 countries** and a range of **over 500 products**. Every product is created within our company, where the entire supply chain is strictly controlled: from electronic design to plastic moulding, right up to final testing in our certified laboratories.

Innovation is the driving force behind our daily work. With significant investments in R&D and a strong focus on IoT, we have led the transition from mechanical thermostats to smart cloud-integrated systems, redefined the standards of professional combustion analysis and paid close attention to the safety of systems and professionals.

Choosing Seitron means relying on total quality, guaranteed by **Italian manufacturing processes** and rigorous testing that ensures product precision and durability over time.

Looking through this catalogue, you will discover the result of this commitment: tools designed for those who choose reliability and professionalism every day.



## Foundation

Seitrons' story begins in Bassano del Grappa, from an entrepreneurial idea by Ing. Vito Feleppa. The first steps were taken in the field of thermoregulation.

1981



## Seitron Americas

Seitron Americas is established, marking the first step towards consolidating the company's presence on the American continent.

2021



## 45 years of activity

A journey of constant growth that has transformed experience and technology into value for customers and partners worldwide.

2026

Seitron Milestones

Technological Milestones

1985

### Residential gas detectors

Seitron expands its product offering in the gas safety sector, initiating the development of residential gas detectors.



2004

### Combustion analyzer

Seitron begins to develop and manufacture a complete range of portable instruments and combustion analysers.



2019

### IoT products

Seitron takes its first steps into the Internet of Things sector, developing and producing connected thermostats, manageable via app.



2022

### Refrigeration

Seitron expands its market presence by entering the refrigeration sector.



2024

### Portable gas detectors

A new chapter begins for Seitron, which introduces its latest innovation: single-gas and multi-gas portable detectors.



# INDEX

## PRODUCTS

Combustion and emission analysers are essential tools for monitoring and optimising combustion processes and emissions from production plants, ensuring energy efficiency and compliance with environmental regulations.



### Combustion analyzers

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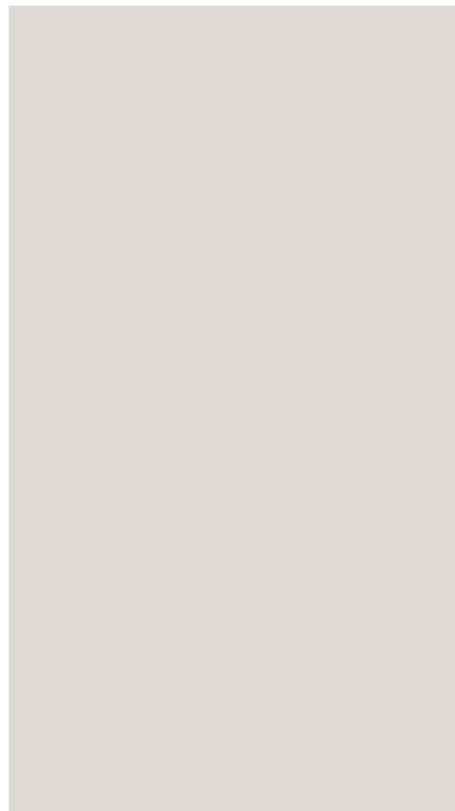
### Industrial emissions analysers

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### Portable instruments

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The range of combustion analysers developed and manufactured in Italy by Seitron represents excellence in the measurement and optimisation of combustion processes. Designed to ensure precision and reliability, these tools are ideal for technicians and professionals working in the heating and air conditioning sector, supporting them in the setup, installation and repair of any residential or commercial boiler or burner.

Seitron combustion analysers are characterised by high precision, ease of use, versatility and regulatory compliance.

These tools enable various measurements to be taken:

- gas distribution system leak testing (for new systems UNI 7129-1 and existing systems UNI 11137)
- differential temperature measurement
- gas pressure measurement
- draught measurement in accordance with UNI 10845 standard
- calculation of efficiency UNI 10389-1 for condensing boilers
- UNI 10389-2 combustion analysis for biomass heat generators
- measurement of CO levels in enclosed spaces

NOVO is a versatile and innovative solution, suitable for technicians who perform analyses on multiple types of boilers.

The CHEMIST 100 BE GREEN analyser is suitable for professionals looking for a basic product that allows them to perform complete analyses on residential boilers in a simple manner.

# Combustion analysers



# COMBUSTION ANALYSER

# N•VO

Design and Made in ITALY

4-sensor handheld gas analyzer

7" colour Touch Display

More than 15 preconfigured fuels (including Wood, Pellets, Biogas and Coal) and customisable fuels

Integrated Dilution Pump for CO sensor protection

Rechargeable Li-Ion Batteries

Integrated and easy to empty Water Trap, with LED backlights

Simultaneous Combustion Analysis and Pressure Measurement

Draft Measurement

Tightness Test

Suitable for Combustion Analysis on biomass boilers

Ambient CO measurement



reddot winner 2022

4-YEAR WARRANTY  
ON INSTRUMENT KIT

## Highlights



### Printer

Available with integrated or external Bluetooth® printer



### Touch display

Simple and intuitive interaction on the large colour display



### O2 Long Life Sensor

Replaceable by the user



### Seitron Smart Analysis

Remote management of analysis, data visualization and reporting via app or PC software



### Versatility of application

Configurable up to 4 sensors, also for industrial applications



### Graphs supporting the analysis

Real-time numerical and graphical data visualization. PRO mode to support the technician.

## INTEGRATED WATER TRAP

The design of the water trap and dust filter is different from other instruments, making routine maintenance by the user effective.

The water trap is integrated in the instrument and easily removable. This allows the user to completely empty the water trap without intervening on the instrument.

A large inspection window with backlit LEDs allows the user to quickly and very easily check the level of water present and the degree of soiling of the particle filter.

## UNIQUE PROBE CONNECTOR

The probe is one of Novo's distinguishing features.

The unique connector allows efficient analysis of draft, smoke and temperature. The connector design allows the probe to be safely attached without even looking.

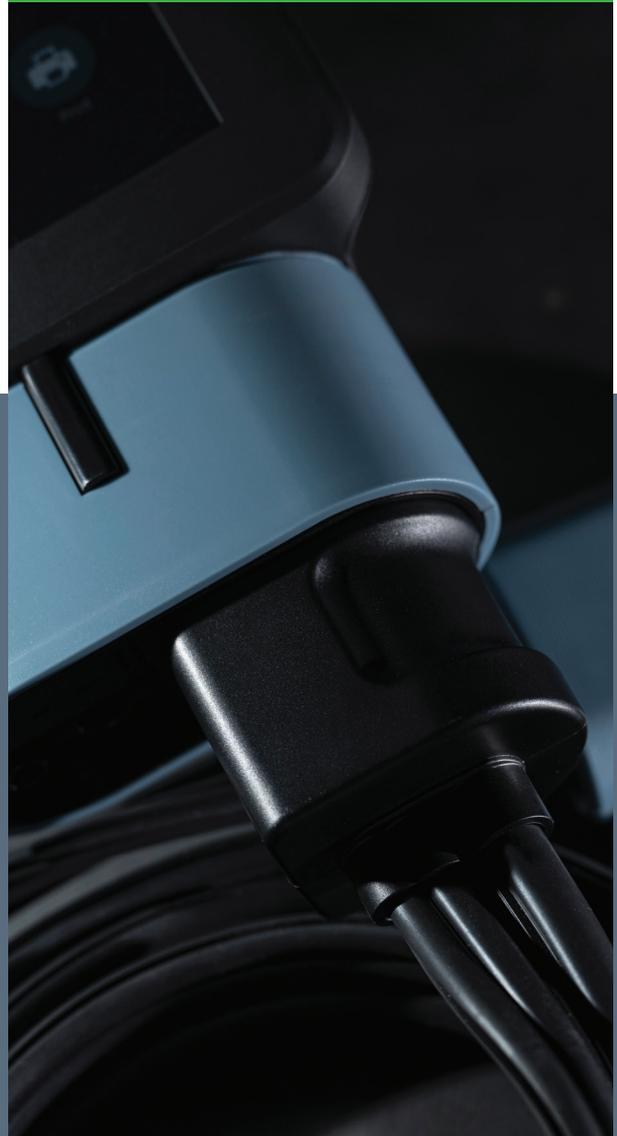
With a single gesture, the user is ready for analysis.

**No need for multiple connectors**

**Water trap**



**Single probe connection**



## MAIN FEATURES

- Precalibrated Gas Sensors
- 3 analysis in sequence with automatic calculation of the average value and printing of the result
- Automatic autozero with flue gas sampling probe inside in the chimney
- Autozero pressure sensor, for a more stable and reliable draft measurement
- Self-diagnosis with verification of the functioning and status of the sensors
- Language selectable by the user
- Automatic calculation of piping volume
- Integrated magnets for boiler fixing
- Structured analysis archive with large internal memory for storage
- Dimensions (HxWxD):

Analyser	250x125x60 mm; 0.9 Kg
Kit	520x160x425 mm; 6.3 Kg



## MEASURED VALUES

- Flue gas temperature and differential temperature
- Outdoor air temperature and room temperature
- Draft and differential pressure
- CO concentration in ambient air

## CALCULATED VALUES

- Boiler efficiency, including condensation
- Stack losses and excess air
- CO<sub>2</sub>
- Flow velocity with Pitot tube



## THE NOVO KIT INCLUDES:

- Combustion Analyser
- Flue gas probe with interchangeable 300 mm tip and 1,8 m cable
- Water trap integrated in the instrument
- Combustion air temperature probe
- Tube for gas valve pressure measurement
- Charger and European plug
- Hard plastic case
- Quick Guide
- Calibration Certificate



Seitron Smart Analysis



Seitron Smart Analysis



FETURES	Novo 2	Novo 3	Novo 4S	Novo 4N	Novo Bio (*)
O2 Long Life Sensor	✓	✓	✓	✓	✓
CO/H2 sensor (0 .. 8000 ppm)	✓	✓	✓	✓	
NO sensor (0 .. 5000 ppm)		✓	✓	✓	
NOx Calculated		✓	✓		
NO2 sensor (0 .. 1000 ppm)				✓	
NOx Measured (NO+NO2)				✓	
SO2 sensor (0 .. 5000 ppm)			✓		
CO2, CH4, H2S sensors					✓
Kit with integrated printer	Novo 2-P	Novo 3-P	Novo 4S-P	Novo 4N-P	Novo Bio-P
Kit with External Bluetooth® Printer (paper roll included)	Novo 2-ST	Novo 3-ST	Novo 4S-ST	Novo 4N-ST	Novo Bio-ST

## Novo X

Gas analyzer with customized configuration with up to 4 sensors (O2 Long Life + up to 3 sensors)

(\*) Suggested configuration for exhaust gas analysis in biogas plants



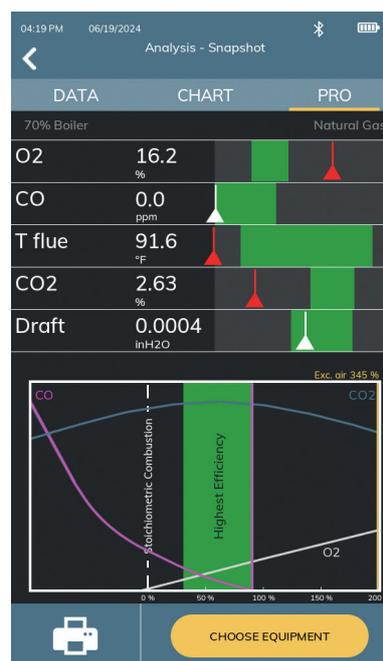
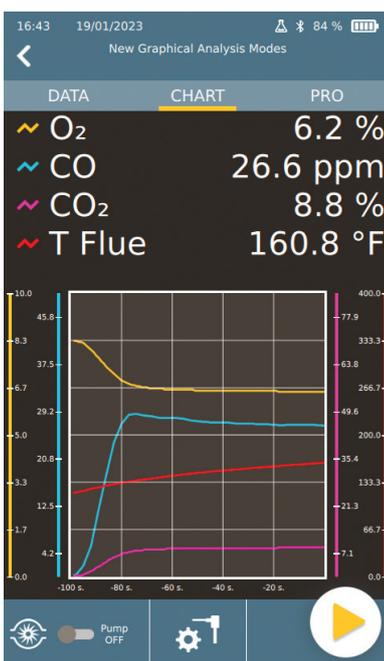
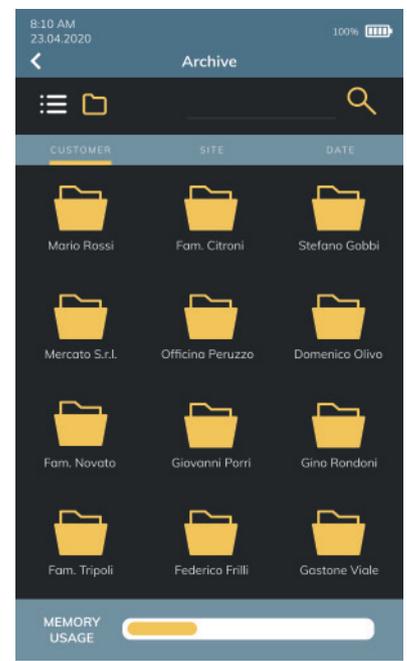
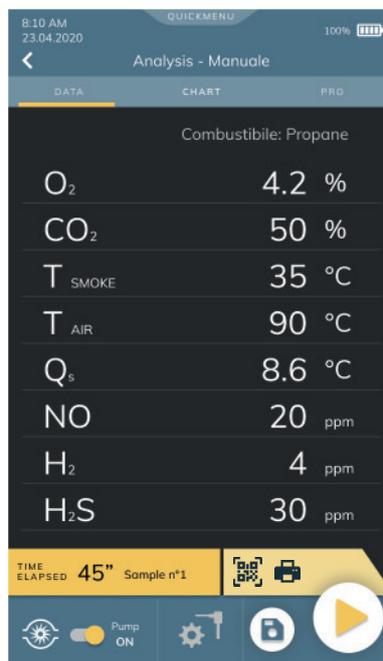
## INTUITIVE INTERFACE

In addition to its elegant and ergonomic design, the instrument features a simple, intuitive and efficient touch screen interface.

Developed according to a careful study of UX (User Experience) and UI (User Interface), Novo guarantees the same ease of use as a smartphone, but with the security and stability of an operating system developed by Seitron.

The intuitive interface allows the user to be independent and ready in carrying out a combustion analysis, setting instrument parameters and making complementary measurements, without ever losing control over the data.

It is possible to manage the instrument remotely, by using the Seitron Smart Analysis mobile app.



### Graphs and PRO mode

The values measured during combustion analysis can be displayed in real time in 3 different ways:

- Textual data
- Graph
- Professional Graph (Pro)

Pro mode supports the user in boiler regulation by displaying the area where combustion values are optimal for that type of boiler.

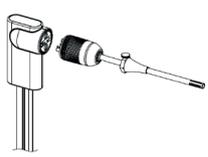
## Novo - GAS SENSORS

GAS	CODE	MEASURING RANGE	RESOLUTION	ACCURACY
O2 Long Life *	Novo O2 LL	0 to 25 per cent by volume	0.1% vol	±0.2% vol
CO / H2	Novo CO/H2	0 to 500.0 ppm	0.1 ppm	±2 ppm ±5% v.m. 0 to 40 ppm 40.1 to 500.0 ppm
		501 to 8000 ppm	1 ppm	±10% v.m. 501 to 8000 ppm
CO / H2	Novo CO/H2	0 to 20,000 ppm	1 ppm	±10 ppm ±5% v.m. 0 to 200 ppm ±10% v.m. 201 to 4000 ppm 4001 to 20,000 ppm
CO	Novo CO	0 to 100,000 ppm	1 ppm	±100 ppm ±10% v.m. 0 to 1000 ppm 1001 .. 100,000 ppm
NO	Novo NO	0 to 500.0 ppm	0.1 ppm	±2 ppm ±5% v.m. 0 to 40 ppm 40.1 to 500.1 ppm
		501 to 5000 ppm	1 ppm	±10% v.m. 501 to 5000 ppm
NO2	Novo NO2	0 to 100.0 ppm	0.1 ppm	±2 ppm ±5% v.m. 0 to 40 ppm 40.1 to 100.1 ppm
		101 .. 1000 ppm	1 ppm	±10% v.m. 101 .. 1000 ppm
SO2	Novo SO2	0 to 500.0 ppm	0.1 ppm	±2 ppm ±5% v.m. 0 to 40 ppm 40.1 to 500.1 ppm
		501 to 5000 ppm	1 ppm	±10% v.m. 501 to 5000 ppm
H2	Novo H2	0 to 2000 ppm	1 ppm	± 10 ppm± 10% v.m. 0 ppm to 100 ppm 101 ppm .. 2000 ppm
H2 High	Novo H2 High	0 to 40,000 ppm	10 ppm	± 100 ppm± 10% v.m. 0 ppm to 1000 ppm 1001 ppm .. 40,000 ppm
H2S	Novo H2S	0 to 5000 ppm	1 ppm	± 10 ppm± 10% v.m. 0 ppm to 100 ppm 101 ppm .. 5000 ppm
Low H2S	Novo H2S Low	0 to 500.0 ppm	0.1 ppm	±5 ppm±5% v.m. 0 to 100.0 ppm 101 .. 500.0 ppm
NH3 Low	Novo NH3 Low	0 to 500.0 ppm	0.1 ppm	±10 ppm±10% v.m. 0 to 100.0 ppm 100.1 to 500.0 ppm
CxHy	Novo CxHy	0 to 5% vol CH4	0.01% vol	±0.25% absolute
CH4 NIDR	Novo CH4 NDIR	0 to 100% vol.	0.01% vol	±0.3 vol ±10% v.m. 0–10% vol. 10.01% .. 100.00% vol
CO2 NDIR	Novo CO2 NDIR	0 to 100% vol.	0.01% vol	±1 volume ±2% full scale 0 .. 10.00% vol 10.01% .. 100.00% vol

\*: Sensor replaceable by the user

## Novo - ACCESSORIES AND SPARE PARTS

CODE	PHOTO	DESCRIPTION
AJSJ01		Flue gas sampling probe handle with 1.8 m cable
AJSJ02		Flue gas sampling probe handle with 3 m cable
AJPT01		Interchangeable 180 mm tip for AJSJ-- and AASJ-- handle, maximum temperature 400°C
AJPT02		Interchangeable 300 mm tip for AJSJ-- and AASJ-- handle, maximum temperature 600°C
AJPT03		Interchangeable 750 mm tip for AJSJ-- and AASJ-- handle, maximum temperature 800°C
AJPT04		interchangeable 1000 mm tip for AJSJ-- and AASJ-- handle, maximum temperature 1200°C
AJPT05		Interchangeable 300 mm flexible tip for AJSJ-- and AASJ-- handles, tube diameter 8 mm, maximum temperature 160°C
AJEX01		3 m extension cable for flue gas sampling probes with AJSJ-- and AASJ-- handle
AJCP01		External unit for passive sample treatment, for NO <sub>2</sub> and SO <sub>2</sub> measurement, compatible with AJSJ-- and AASJ-- probe handles
AACE01		External cooler for active sample treatment, with adapter for AJSJ-- and AASF-- flue gas probe handles
AJTB01		Gas pressure tube to burner, length 1m
AJKP01		Differential pressure measurement kit
AATT01		L-shaped pitot tube, with 300mm tip length, 6mm outer diameter, 2m silicone tube length and without thermocouple
AATT02		L-shaped pitot tube, with 800mm tip length, 6mm outer diameter, 2m silicone tube length and without thermocouple

CODE	PHOTO	DESCRIPTION
AJSC01		External probe for ambient CO measurement (for Novo) (measuring range: 0 .. 500 ppm)
AJCR01		Hard plastic case
AJTA01		Water trap with dust filter
AACFA01		Dust filter for water trap and filter unit (pack of 5); size 12x32mm
AARC10		Long Life thermal paper roll; size 57x35 mm
AAST04	 batterie include	Bluetooth® -connected thermal printer with rechargeable battery, supplied with charger and EU plug and thermal paper roll
AAKT05		Kit for tightness test with 4-way fitting with taps, manual pump, 100 ml syringe, hoses, 1 conical fitting
AJPB01		Rechargeable Li-Ion battery; 3.7 Vdc - 6 Ah
AJKA02		Power supply with EU plug, USB type C and 1.8 m cable
AASA08		Outdoor air temperature 200 mm TcK probe, with 2 m cable
AATL01		S-shaped probe with clamp for 8 mm tips, for use on exhaust systems
AAPM02		Manual pump for measuring carbon black, including filters and Bacharach table
<p>Accessories for industrial measurements, high temperatures and dusty flue gases</p> <p>AJSJ- + AJPT- Flue gas probe</p> <p> +  AASP01 Heat protective shield +  AAFS02 Stainless steel filter with adapter</p>		





**N•VO**

# COMBUSTION ANALYSER



**CHEMIST 100  
BE GREEN**

Design and Made in ITALY

2-sensor handheld gas analyzer

Black/white backlit LCD Display

15 Preprogrammed Fuels  
(Including Wood, Pellets, Biogas and Coal)

Rechargeable Li-Ion batteries

Possibility of printing performed analysis on receipts

QR Code to acquire Analysis from smartphone

Draft Measurement

Tightness Test



**2-YEAR WARRANTY  
ON ANALYSER KIT**

## Highlights



### Versatility and simplicity

Basic instrument for complete analysis, including draft measurement and tightness test



### External Bluetooth® printer

Availability of kits with external printer, to print analysis report



### Compact and solid design

Protective rubber case for better manouverability and protection



### Seitron Smart Analysis

Possibility to download, share and print analysis on smartphones, via mobile app



### Comprehensive analysis

Intuitive interface for fast and effective analysis

## MAIN FEATURES

- Precalibrated gas sensors
- Self-diagnosis with verification of the functions and status of the sensors
- Visualisation and sharing of analysis data with QR code reading
- Automatic recognition for condensing boiler
- Internal memory for 5 complete analysis
- Up to 10 hours of battery life
- Dimensions (HxWxD):  
Analyser 70x60x170 mm; 0.35 Kg  
Kit 122x406x290 mm; 2.35 kg

## MEASURED VALUES

- Flue gas temperature and differential temperature
- Differential draft and pressure
- CO concentration in ambient air

## CALCULATED VALUES

- Boiler efficiency, including condensation
- Stack losses and excess air

### Back magnets



### Compact and light



FEATURES	101	101 S	102	102 S	103	103 S
O2 Sensor	✓	✓	✓	✓	✓	✓
CO/H2 Sensor	✓	✓	✓	✓	✓	✓
NO Sensor	-	-	-	-	✓	✓
NOx Calculated	-	-	-	-	✓	✓
Expandable to 3 sensors	-	-	✓	✓	✓	✓
Draft measurement with internal sensor (optional)	-	-	✓	✓	✓	✓
Gas pipe tightness (optional)	-	-	✓	✓	✓	✓
Gas pipes volume automatic calculation (optional)	-	-	✓	✓	✓	✓
Kit with Bluetooth Printer	-	✓	-	✓	-	✓
Thermal Paper Roll	-	✓	-	✓	-	✓

GAS	CODE	MEASURING RANGE	RESOLUTION	ACCURACY
O2 *	AACSE50	0 .. 25% v/v	0.1% vol	±0.2% vol
CO high immunity H2 with NOx filter	AACSE58	0.. 4000 ppm	1 ppm	±20 ppm ±5% ±10% 0 .. 400 ppm 401 .. 4000 ppm 4001 .. 8000 ppm
NO **	AACSE60	0...2000 ppm	1 ppm	±5 ppm ±5% v.m. ±10% v.m. 0 .. 100 ppm 101 .. 1000 ppm 1001 .. 2000 ppm

\* : Sensor replaceable by the user

\*\* : Sensor available only for replacement on CHEMIST 103 BE GREEN

**Bluetooth thermal printer  
AAST04**

 batteries included



**Seitron Smart Analysis**



**EVERY KIT INCLUDES:**

- Combustion Analyser
- Flue gas probe with 180 mm tip and 1.5 m cable
- Water trap complete with hose and fitting
- Kit for gas valve pressure measurement
- Charger and European plug
- Hard plastic case
- Quick Guide
- Calibration Certificate



**ACCESSORIES**  
**GAS ANALYSIS PROBES**

CODE	PHOTO	DESCRIPTION
AASF51A		180 mm flue gas sampling probe, cable length 2 m, maximum temperature 400 °C, without anti-condensation unit
AASF62A		300 mm flue gas sampling probe, cable length 3 m, maximum temperature 600 °C, without anti-condensation unit
AASF71A		180 mm flue gas sampling probe, cable length 1.5 m, maximum temperature 400 °C, without anti-condensation unit
AASF72A		300 mm flue gas sampling probe, cable length 1.5 m, maximum temperature 600 °C, without anti-condensation unit
AASL05A		300 mm flexible flue gas sampling probe, cable length 2 m, maximum temperature 130 °C, without anti-condensation unit

**SPARE PARTS**

CODE	PHOTO	DESCRIPTION
AAPB13		Rechargeable Li-Ion battery; 3.7 V 2.6 Ah
AAKA02		Power adapter with EU plug, USB A / USB B and 2 m cable
AACFA01		Dust filter for water trap and filter unit (pack of 5); size 12x32 mm
AATA04A		Water trap with dust filter unit, including plastic fittings and pipe

## ACCESSORIES

CODE	PHOTO	DESCRIPTION
AACT001		Silicon conical fitting 44 - 22 mm (for tightness test kit)
AACT002		Silicon conical fitting - 18 mm (for tightness test kit)
AAKT05		Kit for tightness test with 4-way fitting with taps, manual pump, 100 ml syringe, hoses, 1 silicone conical fitting.
AARA01		Threaded 9 mm diameter fitting, 1/4" gas coupling, 1/4" to 1/8" gas nipple (for tightness test kit)
AARA02		Gas valve hose adapter: 7 mm internal diameter

## CASES AND PROTECTIVE SHELLS

CODE	PHOTO	DESCRIPTION
AACR09		Hard plastic case
AASM07		Protective rubber case (TPV)

## CALIBRATION CERTIFICATES FOR COMBUSTION ANALYSERS

On request , Seitron performs calibration and service operation on combustion analyzers. Calibration reports can be issued.



In light of increasingly stringent regulations, a highly topical issue in the field of climate and health protection is the analysis of process gas emissions in industrial plants. Resource and energy intensive processes produce large quantities of harmful gases such as carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>) and sulphur dioxide (SO<sub>2</sub>).

Often carried out in extreme environments characterised by high humidity, high temperatures and the presence of dust from combustion gases, emission measurements are essential for verifying the extent and quality of combustion.

The analyses are typically carried out by specialised laboratories, industrial plant maintenance technicians or by the industries themselves.

In order to meet these important requirements, Seitron has specifically developed various types of industrial emission analysers, both portable and fixed, designed for periodic measurement or continuous analysis.

The CHEMIST 600 BE GREEN and CHEMIST 600 range comprises compact, easy-to-use instruments that enable up to six gases to be measured optimally in the main areas of application.

The CHEMIST 900 analyser offers greater flexibility in measurable gases with the aid of NDIR and electrochemical technology, without sacrificing its convenient portable format.

The CHEMIST 900 RACK analyser is a device designed for continuous analysis of industrial emissions, suitable for use in various fields of application.

# Industrial emissions analyzers



# INDUSTRIAL EMISSIONS ANALYZER

**CHEMIST 600**  
**CHEMIST 600**  
**BE GREEN**

Design and Made in ITALY

6-sensor handheld gas analyzer

Backlit colour Display

More than 15 preconfigured fuels  
(including Wood, Pellets, Biogas and Coal)  
and customisable fuels

Integrated Dilution Pump for CO sensor  
protection

Rechargeable Li-Ion batteries

Large storage memory for analysis

Water Trap with Dust filter

Remote management and data storage via  
smartphone or PC

12-MONTH WARRANTY  
ON THE ANALYSER KIT

## Highlights



### Solid and Safe

Rubber protection case and strong magnets for a robust instrument suitable for every application



### External cooler for industrial environments

Active or passive cooling system for analysis in high humidity environments or for measuring NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub> and H<sub>2</sub>S



### Industrial Applications

Used for combustion analysis and additional measurements for industrial applications



### Seitron Smart Analysis

Possibility to download, share and print analysis on smartphones, via mobile app



### Gas sensors

Wide range of gas sensors for customisable configuration (on request)

## MAIN FEATURES

- Precalibrated gas sensors
- 3 analysis in sequence with automatic calculation of the average value and printing of the result
- Self-diagnosis with verification of the functions and status of the sensors
- 10 different preprogrammed languages
- Automatic calculation of gas piping volume
- Integrated magnets and protective case
- Internal memory for 2000 complete analysis
- Dimensions (HxWxD):  
Analyser 270x93x68mm; 0.8 kg  
Kit 510x130x430mm; 3.4 Kg

## MEASURED VALUES

- Flue gas temperature and differential temperature
- Outdoor air temperature and room temperature
- Draft and differential pressure
- CO concentration in ambient air

## CALCULATED VALUES

- Boiler efficiency, including condensation
- Stack losses and excess air
- CO<sub>2</sub>
- Flow velocity with Pitot tube
- Thermal power of the burner

**Chemist 600 Be Green  
with optional external printer**

**Chemist 600  
with integrated printer**



**EVERY KIT INCLUDES:**

- Combustion Analyser
- Flue gas probe with 300 mm tip and 3 m cable
- Water trap with hose and fitting
- Combustion air temperature probe
- Differential pressure measurement Kit
- Charger and European plug
- Hard plastic case
- Quick Guide
- Calibration Certificate



FEATURES	605 605 BE GREEN	606 HC 606 HC BE GREEN	606 CO2 606 CO2 BE GREEN	600 Bio 600 Bio BE GREEN (*)
Expandable to 6 sensors	✓	6 sensors	6 sensors	
O2 sensor	✓	✓	✓	✓
CO/H2 sensor (0 to 8000 ppm)	✓	✓	✓	
NO sensor (0 to 5000 ppm)	✓	✓	✓	
NO2 sensor (0 to 1000 ppm)	✓	✓	✓	
SO2 sensor (0 to 5000 ppm)	✓	✓	✓	
CxHy sensor		✓		
CO2 sensor			✓	✓
CH4 sensor				✓
H2S sensor				✓
Measured NOx (NO+NO <sub>2</sub> )	✓	✓	✓	

(\*) O<sub>2</sub>, CH<sub>4</sub>, CO<sub>2</sub>, H<sub>2</sub>S (Low or High) sensor configuration customisable on request. Recommended application for exhaust gas analysis in biogas plants.

## CHEMIST 600 X BE GREEN / 600 X

Gas analyzer with customized configuration with up to 6 sensors of your choice

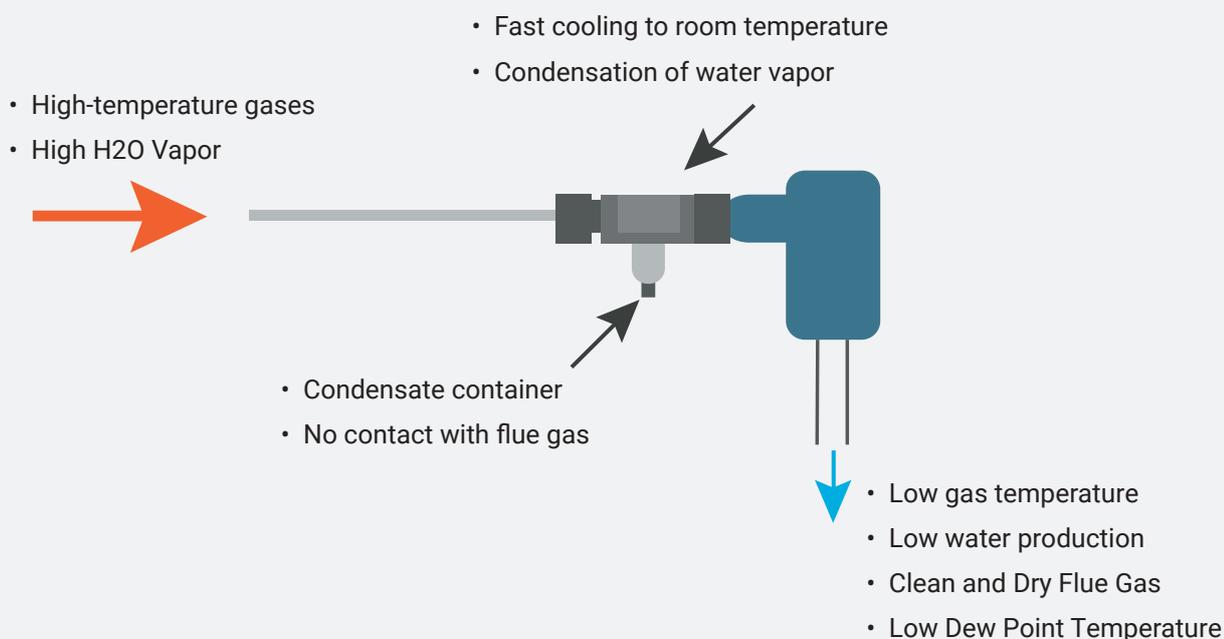


# Sample Air Conditioning Unit for Low NO<sub>x</sub> and SO<sub>x</sub> Measurements

When using a portable gas analyser to **monitor levels of NO, NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub> and/or H<sub>2</sub>S**, especially if in a range below 50 ppm or during long term testing (over 40 minutes), it becomes essential to reduce or remove the coexistence time of gas and condensed water. This occurs in **high humidity environments** or when **sampling periods is long**. In these cases, it becomes essential to use a specially designed sampling system to minimise or, if possible, eliminate the condensed water droplets formed along the sampling lines. Without this system, measured readings could be up to 20% lower than actual values in the process, thus compromising the accuracy of the information obtained.

## Passive Mode

External unit for sample processing



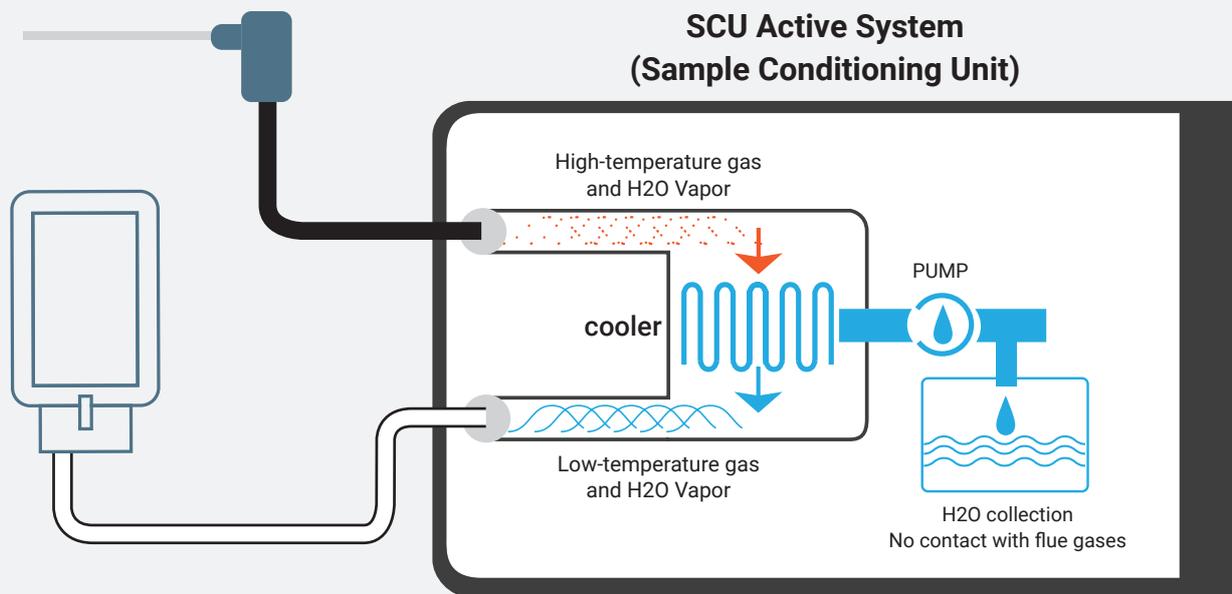
**Passive SCU (Sample Conditioning Unit) System**  
AJCP01

Features:

- Simple plug & play installation
- Fast cooling to room temperature
- Easy maintenance
- Compatible with AJSJ-- and AASJ-- probe handles

# Active Mode

External cooler for sample processing



## Active SCU (Sample Conditioning Unit) System AACE01

### Features:

- Recommended use in high humidity environments and for the measurement of NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub> and H<sub>2</sub>S
- Integrated thermoelectric Peltier cooler for rapid cooling and drying of flue gases samples
- Automatic condensate drainage pump
- Power supply 110 .. 240 Vac or via 12 V external power-bank
- Protective hard plastic carrying case
- Compatible with all Seitron portable gas analysers (NOVO and CHEMIST series)
- Adapters for AASF-- and AJSJ-- probes included



# INDUSTRIAL EMISSIONS ANALYZER

## CHEMIST 900

Design and Made in ITALY

12-sensor portable gas analyzer

More than 15 preconfigured fuels  
(including Wood, Pellets, Biogas and Coal)  
and customisable fuels

Smoke suction pump and peristaltic pump for  
automatic drainage of the condensation

USB output for PC connection

Electrochemical CO sensor protection with  
dilution system

Active and passive gas sampling systems

Large storage memory for analysis

User-configurable parameters

Bluetooth® communication



## Highlights



**Suitable for any application**  
Configurable with electrochemical  
gas sensors (up to 9 sensors) and  
NDIR bench (up to 3 gases)



**Portable instrument**  
Suitable for various applications due  
to easy portability



**Active sample treatment**  
Available with anti-condensation  
cyclone cooler with Peltier cell



**Seitron Smart Analysis**  
Remote management of analysis,  
data storage and parameter  
configuration via PC software



**Integrated printer**  
Possibility of printing  
analysis reports



**Suitable for industrial applications**  
Availability of a wide range of  
accessories

## THE CHEMIST 900 KIT INCLUDES:

- Gas sampling system
- Expansion Water Trap or active cooling system
- Combustion air temperature probe with 200 mm tip
- Kit for differential pressure measurement
- 1 m hose for remote condensate drainage
- Power cable, USB cable and EU/Schuko/US plugs
- User Manual
- Calibration Certificate

## Designed for:

- Water trap/cyclone cooling system with Peltier sensor
- Installation of 1 to 9 electrochemical gas sensors
- NDIR bench for measuring up to 3 gases
- Flue gas probe (with or without heated head)

### Colour Display



### Dust Filters



## MEASUREMENTS

- Gas measurement with NDIR bench (measurement of up to 3 gases)
- Gas measurement with electrochemical sensors (up to 9 sensors)
- Local or remote combustion air measurement
- Differential pressure measurement
- Gas velocity measurement with external Pitot tube and automatic autozero
- Suction pump flow rate measurement



Seitron Smart Analysis



Seitron Smart Analysis



## Gas sampling systems



### Active Type

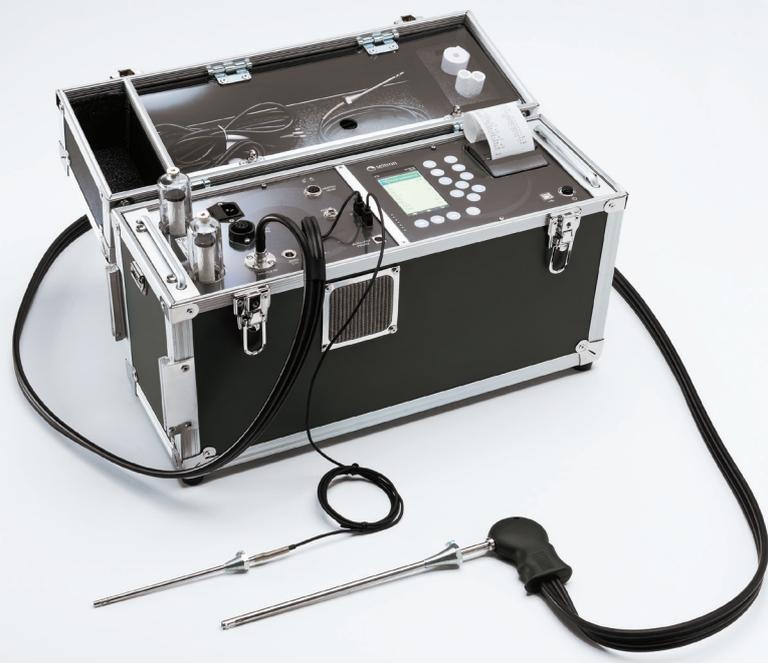
Gas sampling probe with heated head and flexible tube, suitable for high humidity applications.

The heated probe function is to prevent the water in the humid flue gas from condensing along the probe path, dissolving easily soluble gases (eg. NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, H<sub>2</sub>S) in it and altering the measurement. The active probe keeps the gas sample at a temperature above the Dew point and preserves it until it reaches the cooling system. In this context, the use of rapid, cyclone-type cooler analysers with Peltier cells is suggested.

The active gas system results in rapid condensation of water vapour, preventing the gases NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, H<sub>2</sub>S from dissolving.

### Passive Type

Probe with fixed tip, available in different lengths, with 3 m tube and connectors.



Central processing unit version	Electrochemical sensors (up to 9 gases)	NDIR measuring bench (up to 3 gases)	Anti-condensation cyclone cooling system with Peltier cell	Anti-condensation trap with expansion system
Chemist 901	✓	-	-	✓
Chemist 901 IR	✓	✓	-	✓
Chemist 902	✓	-	✓	-
Chemist 902 IR	✓	✓	✓	-

### NDIR benches available for simultaneous measurement of up to 3 gases:

Gas	Measurement Principles	Measuring range	Accuracy	Response Time (t 90)
CO	NDIR	0 to 2500 ppm 2,500 to 100,000 ppm (10% by volume) 100,000 to 500,000 ppm (50% Vol)	1 ppm 10 ppm 100 ppm	< 10 sec
CO <sub>2</sub>	NDIR	0 to 50 per cent by volume	0.1% Vol	< 10 sec
CH <sub>4</sub> *	NDIR	0 .. 100 % Vol	1 ppm	< 10 sec
HC (C <sub>3</sub> H <sub>8</sub> )*	NDIR	0 to 30,000 ppm	1 ppm	< 10 sec

(\*) The NDIR bench simultaneously measures up to 3 gases: CO, CO<sub>2</sub>, HC (ref. to methane CH<sub>4</sub>) or HC (ref. to propane C<sub>3</sub>H<sub>8</sub>).



# INDUSTRIAL EMISSIONS ANALYZER

## CHEMIST 900 RACK

Design and Made in ITALY

Analyser for emission monitoring and continuous gas analysis

NDIR bench (up to 3 gases) for precision measurements

Latest generation electrochemical sensors (up to 5 gases)

Rotary flow meter for immediate display of pump flow

User-configurable parameters

RS485 serial communication on Modbus® RTU protocol

Possibility to communication on Ethernet line with external module

8 isolated 4 .. 20 mA outputs and 1 alarm relay output

TFT colour Display

Electrochemical CO sensor protected by an automatic dilution system



## Highlights



### Application-driven

Customisable configuration with electrochemical sensors and NDIR bench



### Simplified maintenance

Ordinary maintenance and sensor replacement can be carried out by the user



### Continuous monitoring

Analyser for 24/7 process emission analysis



### Field calibration

Ability to calibrate sensors independently in the field with certified gas bottles



### Seitron Smart Analysis

Configurable parameters, data saving and reporting with PC software included



### Integrated cooling system

Automatic cooling system with Peltier cell, including automatic condensate drainage and filters

## FEATURES

- RS485-type serial communication port with Modbus® RTU protocol
- Possibility of communication on Ethernet line with external module
- USB communication port
- 8 isolated 4 .. 20 mA outputs and 1 alarm relay output
- 4 to 20 mA analogue output signal, scalable up to 10% of the chosen sensor (other calibrations beyond this limit on request)
- 15 preconfigured and 32 user-programmable fuels
- PCI/PCS efficiency calculation
- Condensation efficiency calculation

- Draft measurement with automatic autozero
- Differential pressure measurement
- Gas velocity measurement with Pitot tube
- Suction pump flow rate measurement

## CHEMIST 900 RACK INCLUDES:

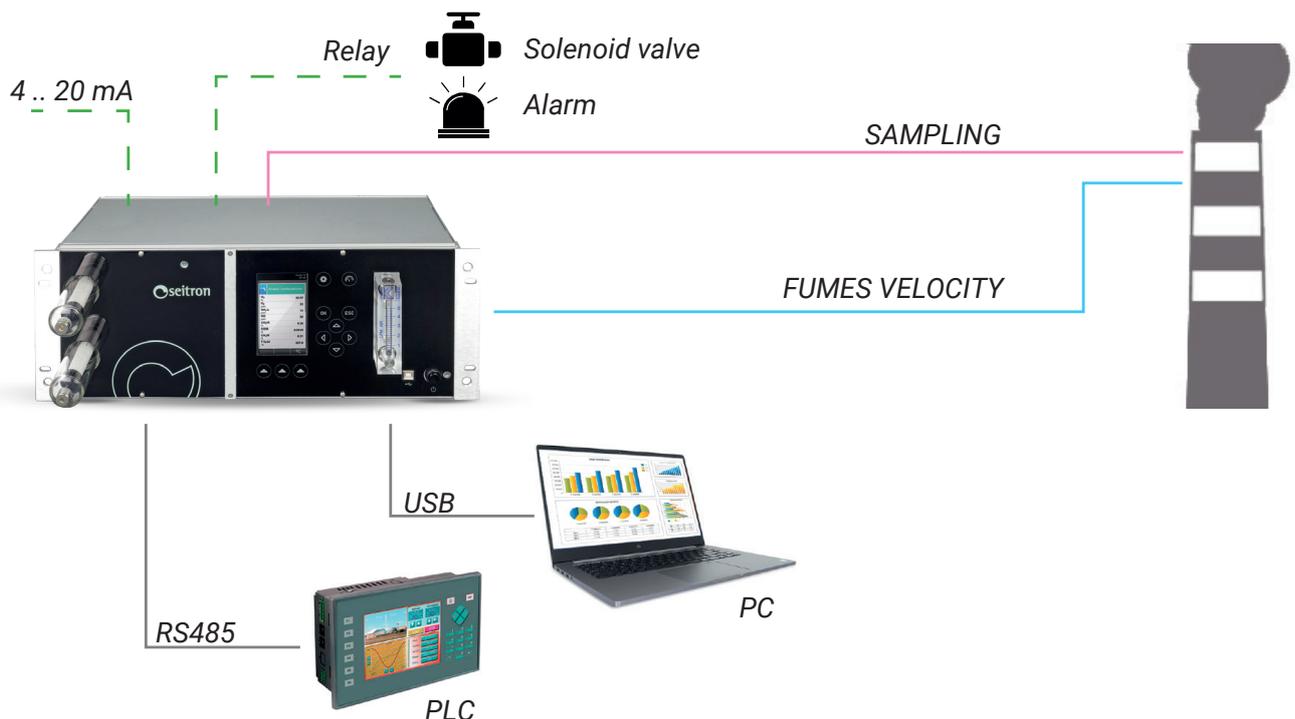
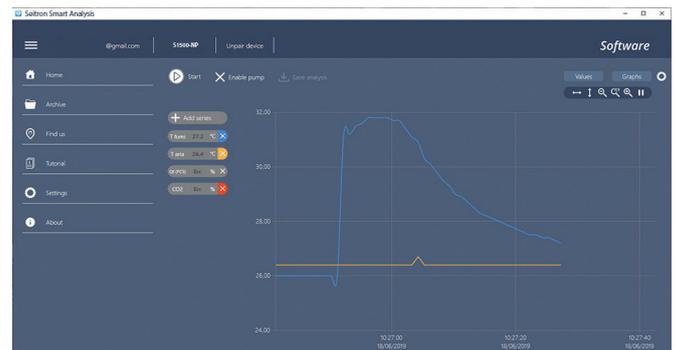
- Combustion and emissions analyser
- International plug cable (EU, Schuko, USA)
- USB cable
- User Manual
- Calibration Certificate



Windows Software  
Seitron Smart Analysis



- Data storage
- Remote view of analysis in real time from the analyser
- Visualisation, export and storage of data
- Analyser configuration



## NDIR BENCHES

### AACSE38

Recommended for combustion and emissions analysis

GAS	MEASURING RANGE	RESOLUTION	RESPONSE TIME (T90)	ACCURACY
<b>CO</b>	0 .. 50.0% vol (0 to 500,000 ppm)	1 ppm 10 ppm 100 ppm	< 6 seconds	±50ppm±3% <i>m.v.</i> ±5% <i>m.v.</i> 0 to 2500 ppm 2501 .. 100,000 ppm 100,001 .. 500,000 ppm
<b>CO2</b>	0 .. 50.0% vol (0 to 500,000 ppm)	0.001% vol.	< 6 seconds	±0.3% vol ±5% <i>m.v.</i> ±10% <i>m.v.</i> 0.00 to 8.00% vol 8.01% .. 40.00% vol (**) 40.01% .. 50.00% vol
<b>CH4</b>	0 to 1,000,000 ppm (100% vol)	1 ppm vol	< 6 seconds	±50ppm ±2% <i>m.v.</i> ±3per cent <i>m.v.</i> 0 to 200 ppm 201 .. 50,000 ppm (***) 50001 to 1000000 ppm

### AACSE80

Recommended for thermal processes

GAS	MEASURING RANGE	RESOLUTION	RESPONSE TIME (T90)	ACCURACY
<b>CO</b>	0 .. 40.0% vol (0 to 400,000 ppm)	10 ppm	5 seconds	±0.5 FS or 0.2% Vol
<b>CO2</b>	0 .. 25,000 ppm	1 ppm	5 seconds	± 50 ppm ± 275 ppm 0 to 2,500 ppm 0 .. 25,000 ppm
<b>CH4</b>	0 to 10.0% by volume (0 to 100,000 ppm)	10 ppm	5 seconds	+/- 1 FS or 0.1% Vol

### AACSE76

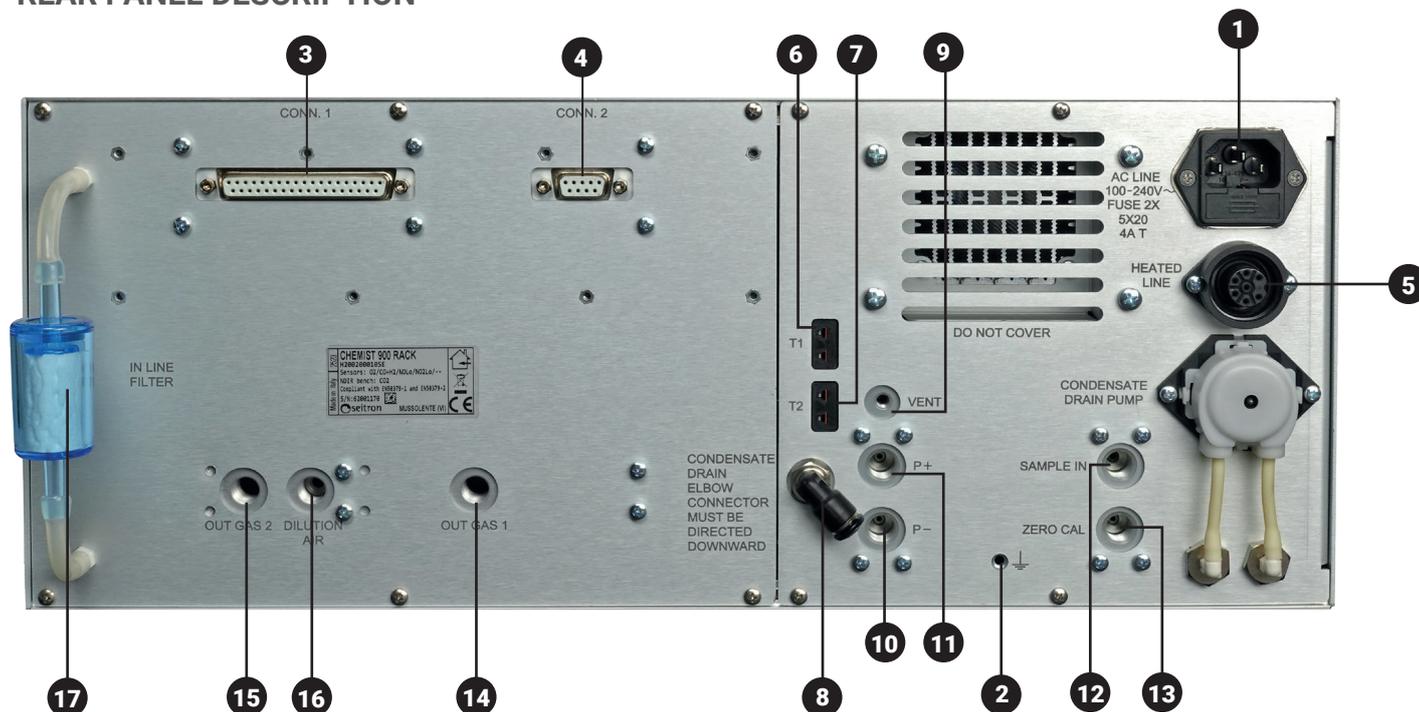
Recommended for industrial engines

GAS	MEASURING RANGE	RESOLUTION	RESPONSE TIME (T90)	ACCURACY
<b>CO</b>	0 .. 50.0% vol (0 to 500,000 ppm)	1 ppm 10 ppm 100 ppm	< 6 seconds	±50ppm±3% <i>m.v.</i> ±5% <i>m.v.</i> 0 .. 2,500 ppm 2,501 .. 100,000 ppm 100,001 .. 500,000 ppm
<b>CO2</b>	0 .. 50% Vol	10 ppm	< 6 seconds	±0.3% vol ±5% <i>m.v.</i> ±10% <i>m.v.</i> 0.000 to 8.00% vol 8.01% .. 40.00% vol 40.01% .. 50.00% vol
<b>HC (C3H8)</b>	0 to 10.0% by volume (0 to 100,000 ppm)	1 ppm	< 6 seconds	±10ppm ±3% <i>m.v.</i> ±5% <i>m.v.</i> 0 to 300 ppm 301 to 4,000 ppm 4,001 to 100,000 ppm

\*\* : Customised linear correction of the sensors is available on request to improve accuracy by +/- 0.15% Vol within the range 0 .. 20%.

\*\*\* : Customised linear correction of the sensors is available on request to improve accuracy to +/- 10 ppm within the range 0 .. 1000 ppm.

## REAR PANEL DESCRIPTION



### 1. 'AC LINE - 100 .. 240 V-' Connector

IEC C14 socket for connecting the power cable to the instrument. The socket has a fuse holder door containing 2 x 20 4 A T fuses.

### 2. Device grounding connection

### 3. 37-pin connector (8 outputs 4 .. 20 mA, 1 relay output and 1 input connector)

Provides the user with 8 outputs 4 .. 20 mA. and 1 relay output with 1 input contact for instrument stand-by control.

### 4. RS485 Serial Connector

RS485 serial communication port according to Modbus® RTU protocol.

### 5. 'HEATED LINE' Connector

Connector for connecting the heated tube.

### 6. 'T1' connector

Tc-K connector for connecting the Tc-K male connector of the probe for measuring flue gas temperature.

### 7. 'T2' connector

Tc-K connector for connecting the Tc-K male connector of the combustion air probe.

### 8. Condensate water discharge

### 9. 'VENT' connector - M5 Female Connection

Air inlet used by the pressure sensor to perform autozero. In case of installation on a rack or in pressurized environments, the air inlet must be moved remotely to ambient pressure.

### 10. Pneumatic 'P-' connector - 1/8 GAS BSPP female connector

Negative input (P-) to be used for draft measurement.

### 11. Pneumatic 'P+' female connector 1/8 GAS BSPP

Positive input (P+) to be used for general pressure measurement.

### 12. Pneumatic connector 'SAMPLE IN' - female 1/8 GAS BSPP connector

Inlet for connection of flue gas suction probe.

### 13. 'ZERO CAL' pneumatic connector - 1/8 GAS BSPP female connector

Inlet for connecting a remote air intake tube to perform autozero. If the instrument is located in a closed and polluted environment, the instrument's air intake can be moved to a clean air environment using the 'ZERO CAL' connector.

### 14. 'OUT GAS 1' connector - 1/8 GAS BSPP female connector

Remote outlet of the analysed gas.

### 15. 'OUT GAS 2' connector - 1/8 GAS BSPP female connector

Remote outlet of the analysed gas.

### 16. DILUTION AIR' connector - 1/8 GAS BSPP female connector

Remote air intake for CO dilution.

### 17. Dust filter for infrared bench protection

## INDUSTRIAL GAS ANALYSER SENSORS

GAS	CODE	MEASURING RANGE	RESOLUTION	ACCURACY		CHEMIST 600/600 BG	CHEMIST 900/900 RACK
O2	AACSE15	0 to 25 per cent by volume	0.1% vol	±0.2% vol		✓	✓
O2 Long Life	AACSE44	0 to 25 per cent by volume	0.1% vol	±0.2% vol		✓	✓
O2	AACSE81	0 to 100 per cent by volume	0.01% vol	±1%vol			✓
CO / H2	AACSE12	0 to 8000 ppm	1 ppm	±10 ppm ±5% ±10%	0 to 200 ppm201 .. 2000 ppm2001 .. 8000 ppm	✓	✓
CO/H2 Low Range	AACSE24	0 to 1000.0 ppm	0.1 ppm	±2 ppm ±5%	0 to 40.0 ppm40.1 to 1000.0 ppm	✓	✓
CO High	AACSE17	0 .. 10.00% Vol (100,000 ppm)	0.01% vol	±0.1% vol ±5%	0 .. 2.00 % 2.01 .. 10.00 %	✓	✓
CO Mid	AACSE18	0 to 20,000 ppm	1 ppm	±100 ppm ±5% ±10%	0 to 2000 ppm 2001 .. 4000 ppm 4001 to 20 ,000 ppm	✓	✓
CO2 NDIR	AACSE47	0 to 100 per cent by volume	0.1% vol	±1% ±2%	0 .. 10 % 10 .. 100 %	✓	✓
NO	AACSE10	0 to 5000 ppm	1 ppm	±5 ppm ±5%	0 to 100 ppm101 to 5000 ppm	✓	✓
NO Low Range	AACSE25	0 to 500.0 ppm	0.1 ppm	±2 ppm ±5%	0 .. 40.0 ppm 40.1 to 500.0 ppm	✓	✓
NO2	AACSE14	0 to 1000 ppm	1 ppm	±5 ppm ±5%	0 to 100 ppm101 .. 1000 ppm	✓	✓
NO2 Low Range	AACSE26	0 to 500 .0 ppm	0.1 ppm	±2 ppm ±5%	0 .. 40.0 ppm 40.1 to 500.0 ppm	✓	✓
SO2	AACSE13	0 to 5000 ppm	1 ppm	±5 ppm ±5%	0 to 100 ppm101 to 5000 ppm	✓	✓
SO2 Low Range	AACSE28	0 to 500 .0 ppm	0.1 ppm	±2 ppm ±5%	0 .. 40.0 ppm 40.1 to 500.0 ppm	✓	✓
CH4 NDIR	AACSE73	0 to 100 per cent by volume	0.01% Vol	0 .. 10% 10 .. 100%	0.3% Vol 10% v.m.	✓	✓
CxHy	AACSE39	0.. 5 .00 % CH4 volume	0.01% vol	±0.25% vol		✓	✓
H2/CO Dual	AACSE79	H2: 0 to 2000 ppm	1 ppm	± 10 ppm± 10 %	0 to 100 ppm100 to 2000 ppm	✓	✓
		CO: 0 to 8000 ppm	1 ppm	±10 ppm ±5% ±10%	0 to 200 ppm201 .. 2000 ppm2001 .. 8000 ppm		
H2 High	AACSE78	0 to 40,000 ppm	10 ppm	± 100 ppm± 10 % v.m.	0 to 1000 ppm1001 to 40,000 ppm	✓	✓
hydrogen sulphide	AACSE72	0 to 5000 ppm	1 ppm	± 5 ppm+/- 5% v.m. +/- 10% v.m.	0 to 100.0 ppm 100.0 to 500.0 ppm 501 to 5000 ppm	✓	✓
H2S Low Range	AACSE35	0 to 500 .0 ppm	0.1 ppm	±5 ppm±5% v.m.	0 to 100.0 ppm 100.1 .. 500.0 ppm	✓	✓
NH3	AACSE56	0 to 500 .0 ppm	0.1 ppm	±10 ppm +/-10% v.m.	0 to 100.0 ppm100.1 .. 500.0 ppm	✓	✓

(\*) Sensor replaceable by the user.

(\*\*) For Chemist 600 and Chemist 900, the installation of AACSE79 occupies 2 sensor positions. With this sensor, it is not necessary to install AACSE12 for CO measurement.

## ACCESSORIES

### GAS ANALYSIS PROBES

CODE	PHOTO	DESCRIPTION	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK
AASF51A		180 mm flue gas sampling probe, cable length 2 m, maximum temperature 400 °C, without anti-condensation unit	✓		
AASF62A		300 mm flue gas sampling probe, cable length 3 m, maximum temperature 600 °C, without anti-condensation unit	✓		
AASF65A		750 mm flue gas sampling probe, cable length 3 m, maximum temperature 800 °C, without anti-condensation unit	✓		
AASF66A		1000 mm flue gas sampling probe, cable length 3 m, maximum temperature 1200 °C, without anti-condensation unit	✓		
AASF31		180 mm flue gas sampling probe, cable length 3 m, maximum temperature 400 °C		✓	✓
AASF32		300 mm flue gas sampling probe, cable length 3 m, maximum temperature 600 °C		✓	✓
AASF35		750 mm smoke sampling probe, cable length 3 m, maximum temperature 800 °C		✓	✓
AASF36		1000 mm flue gas sampling probe, cable length 3 m, maximum temperature 1200 °C		✓	✓
AASL05A		300 mm flexible flue gas sampling probe, 8 mm diameter, cable length 2 m, maximum temperature 130 °C, without anti-condensation unit	✓		

## MODULAR PROBES

CODE	PHOTO	DESCRIPTION	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK
AASJ07		Flue gas suction probe handle, without tip, cable length 1.8 m	✓		
AASJ08		Flue gas suction probe handle, without tip, cable length 3 m	✓		
AJPT01		180 mm interchangeable tip for AJSJ-- and AASJ-- handle, maximum temperature 400 °C	✓		
AJPT02		300 mm interchangeable tip for AJSJ-- and AASJ-- handle, maximum temperature 600 °C	✓		
AJPT03		750 mm interchangeable tip for AJSJ-- and AASJ-- handle, maximum temperature 800 °C	✓		
AJPT04		1000 mm interchangeable tip for AJSJ-- and AASJ-- handle , maximum temperature 1200 °C	✓		
AJPT05		Interchangeable 300 mm flexible tip for AJSJ-- and AASJ-- handles, 8 mm tube diameter, maximum temperature 160 °C	✓		

## ACCESSORIES

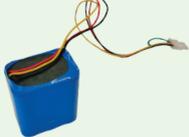
CODE	PHOTO	DESCRIPTION	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK
AACKP01		Differential pressure measuring kit. 2 x 1 m hoses + fittings	✓	✓	✓
AACT001		Silicon conical fitting 44 - 22 mm	for tightness test		
AACT002		Silicon conical fitting 32 - 18 mm	for tightness test		
AAKT05		Kit for tightness test with 4-way fitting with taps, manual pump, 100 ml syringe, hoses, 1 silicone conical fitting.	✓	✓	
AARA01		Threaded 9 mm diameter fitting, 1/4" gas coupling, reduction from 1/4" to 1/8" (for tightness test)	for tightness test		
AARA02		Gas valve hose adapter: d.i. 7 mm	✓		
AASA08		Outdoor air temperature 200 mm TcK probe, with 2 m cable	✓		
AATT01		L-shaped Pitot Tube, 300 mm tip length, 6 mm external diameter, 2 m silicone tube and without thermocouple.	✓	✓	✓
AATT02		L-shaped Pitot Tube, 800 mm tip length, 6 mm external diameter, 2 m silicone tube and without thermocouple.	✓	✓	✓
AARC10		Long Life thermal paper roll 57x35	✓	✓	✓
AAST04		Bluetooth® -connected thermal printer with rechargeable battery, supplied with charger, EU plug and thermal paper roll		✓	

CODE	PHOTO	DESCRIPTION	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK
AACEX01		3 m extension cable for flue gas probe AASF--	✓	✓	✓
AAEX04		25 m extension cable for flue gas probes AASF--	✓	✓	✓
AAPM02		Manual pump for measuring carbon black, including filters and Bacharach table	✓	✓	✓
AACE01		External cooler for active sample treatment, with adapter for AJSJ-- and AASF-- flue gas probe handles	✓		
Probe for automatic carbon measurement  <b>AASY01:</b> Handle with 3.5 m cable <b>AAPT04</b> 750 mm rigid tip				✓	
Probe with electro-heated head and tube  <b>AATR01</b> Electro-heated 3m cable, with thermocouple <b>AAHH04</b> Probe handle with heated head - <b>AAPT01:</b> 300 m rigid tip - <b>AAPT02:</b> 1000 m rigid tip				✓	
Accessories for industrial measurements, high temperatures and dirty flue gases  <b>AAxxx</b> Gas analysis probe <b>AACTA03A</b> Water trap <b>AASP01</b> Heat protective shield <b>AAFS02</b> Stainless steel filter with adapter			✓	✓	✓
AATL01		S-shaped probe with clamp for 8 mm tips, for use on exhaust systems	✓	✓	✓
AJCP01		External unit for passive sample treatment, for NO <sub>2</sub> and SO <sub>2</sub> measurement, compatible with AJSJ-- and AASJ-- probe handles	✓		

(\*) If not included in the AASF probe--

(\*\*) Compatible only with AATR01 cable

## SPARE PARTS

CODE	PHOTO	DESCRIPTION	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK
AAPB01		Rechargeable Li-Ion battery; 3.7 V - 4.8 Ah	✓		
AAPB12		Rechargeable Li-ion battery; 11.6 V - 6200 mAh		✓	
AAKA02		Power adapter with EU plug, USB A / USB B and 2 m cable	✓		
AACFA01		Fine dust filters for water trap and dust filter unit (pack of 5); dimensions 12x32 mm	✓		
AACTA03A		Water trap with dust filter, including stainless steel hoses and fittings.	✓		
AAFA02		Replacement dust filter (2 PCS); size 12x57 mm		✓	✓
AAFA03		Replacement HDPE filter (2 PCS); size 12x32 mm; suggested use for NH3 measurements with passive type probes	✓		
AAFA04		Replacement HDPE filter (2 PCS); size 12x57 mm; suggested use for NH3 measurements with passive type probes		✓	✓
AAFS01		INOX filter; size 12x57 mm (AAFS02 Spare Part)	✓	✓	✓

## CASES AND PROTECTIVE COVERS

CODE	PHOTO	DESCRIPTION	CHEMIST 600/600 BG	CHEMIST 900	CHEMIST 900 RACK
AACR10		Hard plastic case	✓		
AASM06		Protective rubber case (TVP)	CHEMIST 600		
AASM10		Protective rubber case (TVP)	CHEMIST 600 BG		
AAEB03		Trunk extension for Chemist 900		✓	

## CALIBRATION CERTIFICATES FOR EMISSIONS ANALYZERS

On request , Seitron performs calibration and service operation on cumbustion analyzers. Calibration reports can be issued.

## SENSORS FOR CHEMIST 500 AND 500 BE GREEN ANALYSERS (OUT OF PRODUCTION)

Gas	Code	Measuring Range
O2	AACSE15	0 .. 25% v/v
CO / H2	AACSE12	0 .. 8000 ppm
NO	AACSE10	0 .. 5000 ppm
O2 Long Life	AACSE44	0 .. 25% v/v
CO / H2 Low Range	AACSE24	0 .. 500.0 ppm
CO	AACSE17	0 .. 10.00% Vol (100,000 ppm)
CO	AACSE18	0 .. 20000 ppm
CO2 NDIR	AACSE47	0 .. 50% v/v
NO	AACSE10	0 .. 5000 ppm
NO Low Range	AACSE25	0 .. 500.0 ppm
NO2	AACSE14	0 .. 1000 ppm
NO2 Low Range	AACSE26	0 .. 500.0 ppm
SO2	AACSE13	0 .. 5000 ppm
SO2 Low Range	AACSE28	0 .. 500.0 ppm
CxHy	AACSE39	0 .. 5.00% Vol CH4

Seitron offers a wide range of portable tools designed for various applications, necessary for carrying out work on gas systems.

Micromanometers allow small differences in pressure to be measured. The leak test kit assists professionals in performing leak tests on the system. The combustible gas leak detector helps technicians to detect the presence of any gas leaks.

## Portable instruments



## DIGITAL MICROMANOMETER

### PRESSOTEST 100

#### PORMDZBI

Pressotest 100 is the compact, hand-held digital micromanometer for measuring network gas pressure, pressure loss and chimney efficiency. Thanks to the large LCD display, measured values are displayed numerically with 4 digits and graphically on a graduated analogue scale, with a choice of six units of measurement. Autozero, hold and programmable cutoff functions are available. The instrument is supplied in a robust case, containing 2 silicone tubes and 1 metal tube.

#### Technical Features

Power supply (battery)	6 x 1.5 V AAA
Battery life	100 h
Auto cut-off	Adjustable 1 .. 30 min
Zeroing	Automatic
Full scale range	±130 hPa (mBar)
Resolution	0.01 hPa (P<100 hPa), 0.1 hPa (P>100 hPa)
Accuracy	1.5% v.l. (P<-15 hPa); ±0.1 hPa (-15h Pa<P<+15 hPa); 1% v.l. (P>15 hPa);
Dimensions (HxWxD)	162x87x41 mm
Measurement Units	Pa, hPa (mBar), kPa, mmH2O, mmHg, PSI
IP Rating	IP30

Design and Made in ITALY



batteries included

2 YEARS  
WARRANTY

## KIT FOR PIPES TIGHTNESS TEST

### GAS T ONE

#### KV0001 Case + printer

#### KV0002 Case

Gas-T-One is the kit for tightness testing of combustible gas distribution systems. The Gas-T-One micromanometer is the suitable instrument for carrying out tightness tests, in compliance with the standards in force for new systems (UNI 7129) and existing systems (UNI 11137).

You can share the analysis data in pdf or csv format with the Seitron Smart Analysis app, or print the receipt using the external Bluetooth® printer.

Supplied in a practical hard case, the kit includes:

- Gas-T-One micromanometer
- Bluetooth® external printer (KV0001) with rechargeable battery
- Power supply with USB cable and EU plug
- Pipes made of special non-porous plastic material with ball cock
- Plugs of different diameters and metal fittings
- Rubber pump to use air as testing gas
- Calibration Certificate

Design and Made in ITALY



batteries included



2 YEARS  
WARRANTY



Seitron Smart Analysis



## PORTABLE GAS LEAK DETECTOR WITH RECHARGEABLE BATTERY POLF02

The combustible gas leak detector with rechargeable battery is the right instrument for the precise detection of hydrocarbon gas leaks (methane, LPG,...). An acoustic and visual signal is activated in the event of an alarm. Autozero and cut-off functions are available. The user has the possibility of configuring the main parameters. The instrument is supplied in a hard plastic case (\*).

### Technical Features

Power supply (battery)	Li-ion battery 3.7 V, 2000 mAh
Battery life	15 h
Auto cut-off	1 .. 30 min
LCD display	4 digits
Sensor type	Semiconductor
Minimum detectable value	100ppm CH4
Detectable gases	Methane, LPG, CxHy
Dimensions (HxWxD)	151x72x37 mm
IP Rating	IP30
Charger	5 V

Design and Made in ITALY



2 YEARS  
WARRANTY

## PORTABLE GAS DETECTOR PORRDZBI

The combustible gas leak detector is the right instrument for the precise detection of hydrocarbon gas leaks (methane, LPG,...). An acoustic and visual signal is activated in the event of an alarm. Auto-zero and cut-off functions are available. The user has the possibility of configuring the main parameters. The instrument is supplied in a hard plastic case (\*).

### Technical Features

Power supply	With batteries
Battery life	4 h
Auto power down	1 .. 30 min
LCD display	4 digits
Min. detectable value	100ppm CH4
Detectable gases	Methane, LPG
Dimensions (HxWxD)	151x72x37 mm
IP Rating	IP20

Design and Made in ITALY



2 YEARS  
WARRANTY

(\* ) The PORRDZBI and POLF02 gas detectors are not measuring instruments. The ppm readings on the screen are purely indicative. Consequently, the instrument is not supplied with a calibration report. Upon request, a test certificate can be obtained.

## SEITRON SUPPORT AND WARRANTY

Seitron is at your complete disposal to provide existing and potential customers with all the information they need during the pre- and post-sales phases.

Our staff, thanks to their many years of experience in the sector, will be happy to provide support at every stage of the purchase process, right through to the resolution of any issues that may arise during use of the product.



**CONTACT US**  
customer.care@seitron.it



**WRITE US ON WHATSAPP**  
+39 329 1444390



**TALK WITH US**  
+39 0424 567842

## AUTHORISATION FOR RETURN

Contact Seitron Customer Care to request your **return authorisation number (RMA)**.



online form



0424 567842 (Extension 1)



customer.care@seitron.it



WhatsApp 329 144 4390

Once obtained, wait for instructions on how to send the goods. Returns must always be accompanied by a Transport Document, where the authorisation number is present. Returns without an RMA will lose their priority.

Following careful technical verification, Seitron undertakes to repair or replace products covered by warranty, returning them to the customer at its own expense.

**EASY RETURN PROCEDURE**



With a view to the continuous development of its products, Seitron reserves the right to make changes to technical data and performance without prior notice. Visit our website [www.seitron.com](http://www.seitron.com) to view the latest version of technical documentation, manuals and catalogues.



## SEITRON SPA

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