



COMBUSTION ANALYZERS


MADE IN ITALY



www.seitron.it

Range for Combustion Analysis

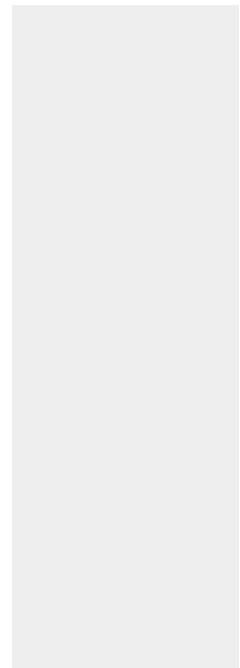
The periodic boiler analysis, also known as boiler combustion analysis/smoke test, is the key to ensure the safety of the boiler, by improving its efficiency and reducing the emissions. Seitron combustion analyzers meet the needs of any operator who has to perform combustion analysis in a simple and immediate way, while being always up to date with current standards such as UNI 10389-1. Seitron combustion analyzers can perform several measurements, such as:

- Tightness test on gas systems
- Differential temperature measurement
- Gas pressure measurement
- Draft measurement
- Calculation of boiler heat losses and efficiency
- Detection of CO values in closed rooms

Seitron portable instruments have been designed for HVAC professionals, supporting them with installation and maintenance of any kind of boiler and burner. Seitron analyzers are the ideal instruments to monitor the combustion processing, helping the optimization of energy efficiency. The products are completely made in Italy, starting from the project to the production, to guarantee the best quality, design and performances.



Applications



Combustion analysis of residential Boilers



Combustion analysis of Pellet Boilers



batteries
included

**Bluetooth Printer
AAST04**

**CHEMIST 100 BE GREEN
WARRANTY: 2 YEARS ON
INSTRUMENT AND GAS
SENSORS**



Seitron Smart Analysis



CHEMIST 100 BE GREEN **UP TO 3 SENSORS**

PORTABLE COMBUSTION ANALYZER

B/W Backlit LCD (50 X 50 Mm)

**15 Preprogrammed Fuels
(Including Wood, Pellets, Biogas And Coal)**

Rechargeable Lithium Ion Batteries

IR Communication

Qr Code To Acquire Analysis With Smartphone

Draught Measurement (Optional)

Tightness Test (Optional)

EVERY KIT INCLUDES:

- Instrument
- 300 mm Smoke Probe with 2 m cable
- Water trap with dust filter, stainless steel fittings and silicon hose
- Combustion air temperature Probe
- Preassure Measures Kit
- Power Adapter and International Plug
- Hard plastic kit case
- Quick Guide
- Calibration Certificate

MAIN FEATURES

- Precalibrated gas sensors
- Self diagnostic function with sensors status
- QR code generation
- Automatic recognition of condensing boiler
- Internal memory for 5 analysis
- Up to 10 hrs. autonomy of continuous operation
- Dimensions:

Analyzer 70Hx60Lx170D mm, weight 0,35 Kg

Kit 122Ax406Lx290D mm, weight 2,35 Kg

MEASURED VALUE

- Flue gas temperature and Temperature Differential
- Outdoor air temperature and room temperature
- Differential Draft and Pressure
- CO in the environment

CALCULATED VALUES

- Boiler efficiency, including condensation
- Stack losses






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	RANGE	RESOLUTION	PRECISION	
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

Gas Analysis Probes

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

CODE	PHOTO	DESCRIPTION
AASJ07		Smoke suction probe handle Without tip - length. Cable: 1.8 meters
AASJ08		Smoke suction probe handle Without tip - length. Cable: 3 meters

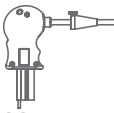


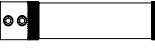


Printers and Consumables

CODE	PHOTO	DESCRIPTION
AARC10		Long life plain thermal paper roll 57x30
AAST04		Thermal printer with Bluetooth connection

Accessories for Residential Applications

CODE	PHOTO	DESCRIPTION
AACT001		Silicone conical fitting 44 - 22 mm (for tightness test)
AACT002		Silicone conical fitting 32 - 18 mm (for tightness test)
AAKT05		Kit for tightness test with 4 ways manifold, 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)
AARA02		Gas valve hose adapter: d.i. 7 mm
AASA08		Outdoor air temperature 200 mm TcK probe, with 2 m cable

Accessories for Industrial Applications



CODE	PHOTO	DESCRIPTION
<p>Accessories for industrial measurements, high temperatures and particularly dirty smokes</p> <div>  +  +  +  </div> <p> AAxxx Gas Analysis Probe * AACTA03A Water Trap AASP01 Guard shield AASF02 Stainless steel filter with adapter </p>		
AATL01		S probe with clamp for 8mm tips, for use on waste systems
AACP01		External unit for passive sample treatment, for NO2 and SO2 measurement, compatible with AASJ probe--

* : If not included in the probe AASFxxx

SPARE REPLACEMENT PARTS

CODE	PHOTO	DESCRIPTION
AAPB13		Rechargeable Li-Ion battery, 3,7 V 2.6 mAh
AAKA02		Power Adapter with international plug, USB A / USB B with 2 m cable
AACFA01		Fine dust filters for AACTA03 (5 pcs. package) Dimensions 12x32 mm
AACTA03A		Water trap with dust filter, stainless steel fittings and silicon hose suitable for all combustion analyzers

CASE, HOLSTER AND ACCESSORIES

CODE	PHOTO	DESCRIPTION
AACR09		Hard plastic kit case
AASM07		Rubber holster

CALIBRATION CERTIFICATE

COD	DESCRIPTION
CER012	ISO 9001 calibration certificate for 2 sensors analyzers
CER013	ISO 9001 calibration certificate for 3 sensors analyzers

To ensure your and your customers' safety, please remind that the current legislation imposes that all measuring instruments must be calibrated by a lab and certified every 12 months.

UNI 10389-1:2009 – Combustion analyzers

UNI 11137:2019 – Manometers and analyzers in use also for gas plants leak tests

UNI 10845:2018 – Manometers and analyzers in use also for open chamber boilers draft