

INDUSTRIAL EMISSIONS ANALYSER

CHEMIST 600 CHEMIST 600 BE GREEN

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 NO₂, SO₂, NH₃ and H₂S



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 130x510x430mm; 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
- CO₂
- Flow velocity with Pitot tube
- Thermal power of the burner

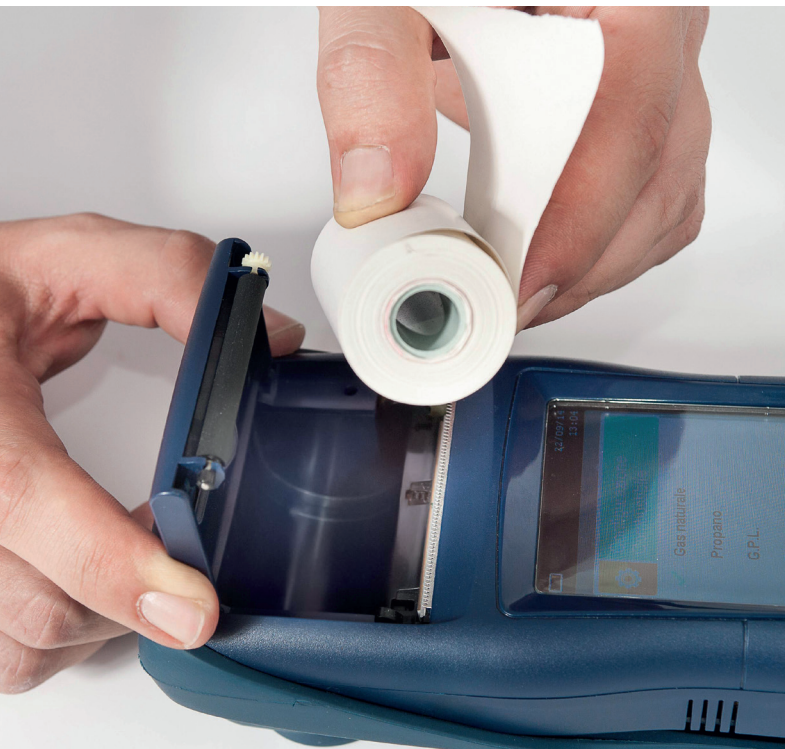
**Chemist 600 Be Green
with optional external printer**

**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 .. 8000 ppm)	✓	✓	✓	
NO sensor (0 .. 5000 ppm)	✓	✓	✓	
NO2 sensor (0 .. 1000 ppm)	✓	✓	✓	
SO2 sensor (0 .. 5000 ppm)	✓	✓	✓	
Measured CxHy		✓		
CO2 sensor			✓	✓
CH4 sensor				✓
H2S sensor				✓
Measured NOx (NO+NO2)	✓	✓	✓	

(*) Sensor configuration O2, CH4, CO2, H2S (Low or High) customisable on request.
Suggested configuration for exhaust gas analysis in biogas plants.

CHEMIST 600 X BE GREEN / 600 X

Gas analyzer with customized configuration with up to 6 sensors

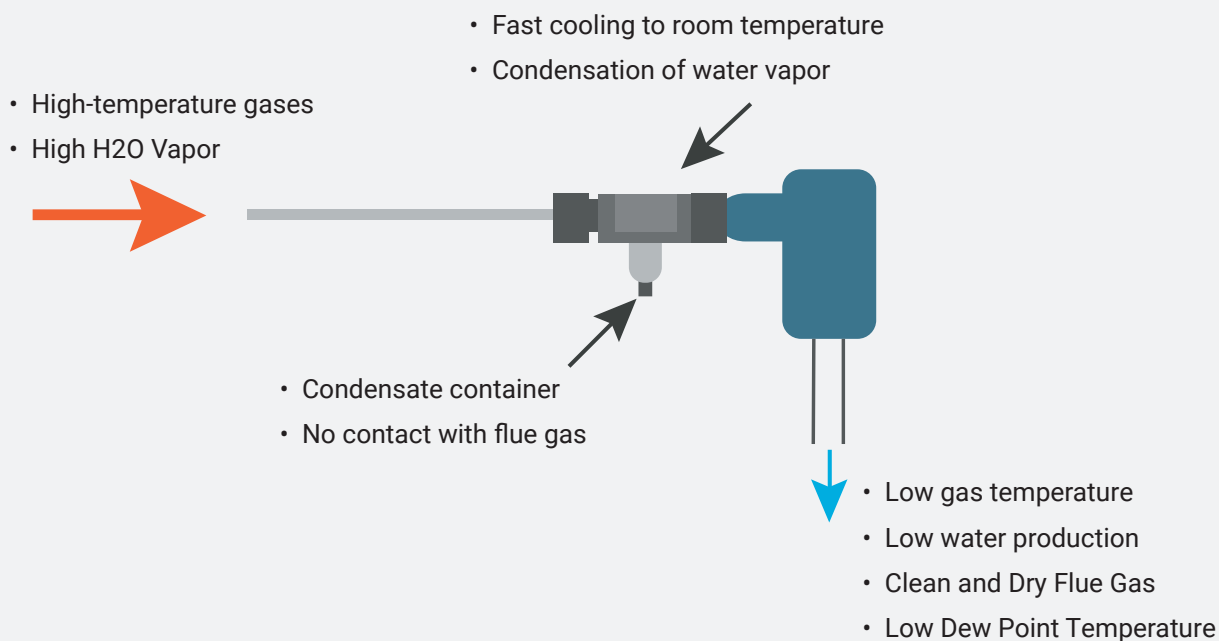


Sample Air Conditioning Unit for Low NOx and SOx Measurements

When using a portable gas analyser to **monitor levels of NO, NO2, SO2, NH3 and/or H2S**, 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



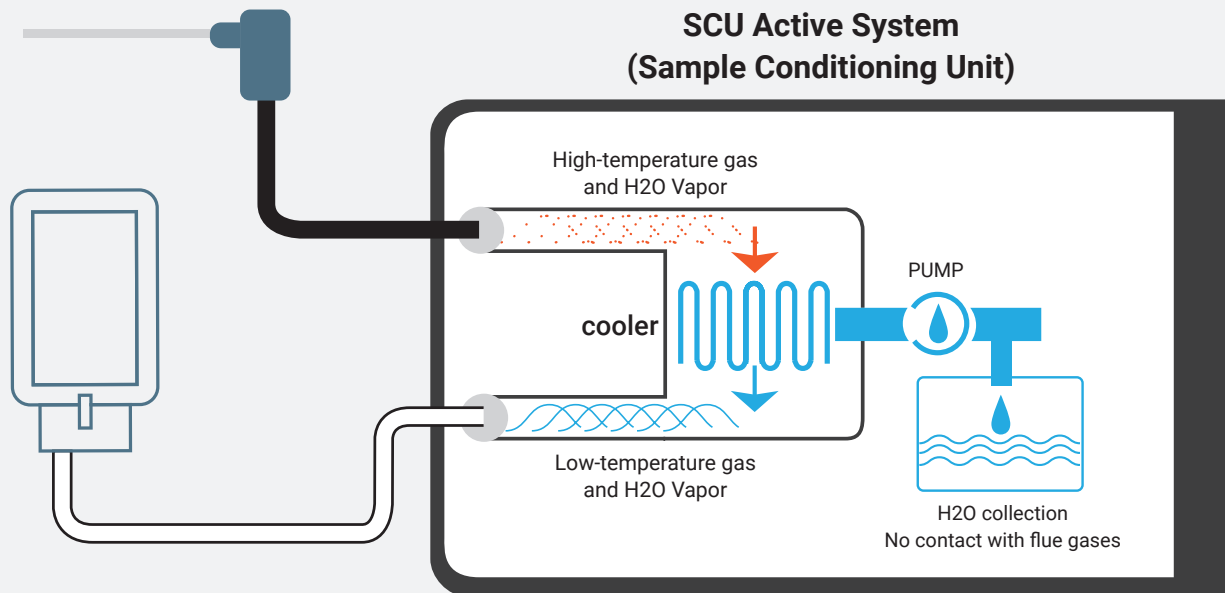
Passive SCU (Sample Conditioning Unit) System
AJCP01

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 NO₂, SO₂, NH₃ and H₂S
- 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



GAS SENSORS FOR INDUSTRIAL ANALYSERS

GAS	CODE	MEASURING RANGE	RESOLUTION	ACCURACY		CHEMIST 600/600 BG	CHEMIST 900/900 RACK
O2 *	AACSE15	0 .. 25% v/v	0,1% vol	±0,2% vol		✓	✓
O2 Long Life	AACSE44	0 .. 25% v/v	0,1% vol	±0,2% vol		✓	✓
O2	AACSE81	0 .. 100% v/v	0,01% vol	±1% vol			✓
CO / H2	AACSE12	0 .. 8000 ppm	1 ppm	±10 ppm ±5% ±10%	0 .. 200 ppm 201 .. 2000 ppm 2001 .. 8000 ppm	✓	✓
CO / H2 Low Range	AACSE24	0 .. 1000,0 ppm	0,1 ppm	±2 ppm ±5%	0 .. 40,0 ppm 40,1 .. 1000,0 ppm	✓	✓
CO	AACSE17	0 .. 10.00% Vol (100.000 ppm)	0,01% vol	±0.1% vol ±5%	0 .. 2.00 % 2.01 .. 10.00 %	✓	✓
CO	AACSE18	0 .. 20000 ppm	1 ppm	±100 ppm ±5% ±10%	0 .. 2000 ppm 2001 .. 4000 ppm 4001 .. 20000 ppm	✓	✓
CO2 NDIR	AACSE47	0 .. 100% v/v	0,1% vol	±1% ±2%	0 .. 10 % 10 .. 100 %	✓	✓
NO	AACSE10	0 .. 5000 ppm	1 ppm	±5 ppm ±5%	0 .. 100 ppm 101 .. 5000 ppm	✓	✓
NO Low Range	AACSE25	0 .. 500.0 ppm	0,1 ppm	±2 ppm ±5%	0 .. 40.0 ppm 40,1 .. 500,0 ppm	✓	✓
NO2	AACSE14	0 .. 1000 ppm	1 ppm	±5 ppm ±5%	0 .. 100 ppm 101 .. 1000 ppm	✓	✓
NO2 Low Range	AACSE26	0 .. 500.0 ppm	0,1 ppm	±2 ppm ±5%	0 .. 40.0 ppm 40,1 .. 500,0 ppm	✓	✓
SO2	AACSE13	0 .. 5000 ppm	1 ppm	±5 ppm ±5%	0 .. 100 ppm 101 .. 5000 ppm	✓	✓
SO2 Low Range	AACSE28	0 .. 500,0 ppm	0,1 ppm	±2 ppm ±5%	0 .. 40.0 ppm 40,1 .. 500,0 ppm	✓	✓
CH4 NDIR	AACSE73	0 .. 100% v/v	0,01% Vol	0 .. 10% 10 .. 100%	0,3% Vol 10% v.m.	✓	✓
CxHy	AACSE39	0 .. 5,00% Vol CH4	0,01% vol	±0,25% vol		✓	✓
H2/CO Dual **	AACSE79	H2 0 .. 2000 ppm	1 ppm	± 10 ppm ± 10 %	0 .. 100 ppm 100 .. 2000 ppm	✓	✓
		CO 0 .. 8000 ppm	1 ppm	±10 ppm ±5% ±10%	0 .. 200 ppm 201 .. 2000 ppm 2001 .. 8000 ppm		
H2 High	AACSE78	0 .. 40000 ppm	10 ppm	± 100 ppm ± 10 % v.m.	0 .. 1000 ppm 1001 .. 40000 ppm	✓	✓
H2S	AACSE72	0 .. 5000 ppm	1 ppm	+/- 5 ppm +/- 5% v.m +/- 10% v.m	0 .. 100.0 ppm 100,0 .. 500,0 ppm 501 .. 5000 ppm	✓	✓
H2S Low Range	AACSE35	0 .. 500,0 ppm	0,1 ppm	±5 ppm ±5% v.m.	0 .. 100.0 ppm 100.1 .. 500.0 ppm	✓	✓
NH3	AACSE56	0 .. 500,0 ppm	0,1 ppm	+/-10 ppm +/-10% v.m.	0 .. 100,0 ppm 100.1 .. 500,0 ppm	✓	✓








(*) Sensor replaceable by the user.

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



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 AASY01: Handle with 3.5 m cable AAPT04: 750 mm rigid tip				✓	
Probe with electro-heated head and tube AATR01: Electro-heated 3m cable, with thermocouple AAHH04: Probe handle with heated head AAPT01: 300 m rigid tip AAPT02: 1000 m rigid tip				✓	
Accessories for industrial measurements, high temperatures and dirty flue gases AAxxx: Gas analysis probe AACTA03A: Water trap AASP01: Heat protective shield AAFS02: 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 ₂ and SO ₂ 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.