



# a1-cbiss PGCS

Portable Gas  
Conditioning System



The a1-cbiss PGCS is a portable gas conditioning system that can be teamed with a portable sampling probe for detailed stack testing compliance

### Determine Stack Testing Compliance

The a1-cbiss Portable Gas Conditioning System (The PGCS) combines a range of Ankersmid products to produce a smart small and compact portable system. Featuring an internal cooler and flow meters, this system is a smart solution for stack testers looking to carry out frequent stack emission tests across different sites.

### Works with the a1-cbiss Range of Stack Testing Equipment

A preliminary fine filter (AUF) is installed at the inlet of the gas sampling pump and can be equipped with a variety range of filter elements in different materials and porosities. Any condensation is continually removed by a peristaltic pump. A heated sampling line can be mounted

### Small, Robust, Lightweight Stack Testing Unit

Enclosed in a compact and robust carrying case, this portable gas conditioning system allows for quick and easy removal of internal components. The compact design ensures that monitoring of stack emissions is carried out in a quick and safe manner with minimum maintenance.

“Versatile and neatly packaged the PGCS is the perfect portable solution for emission stack testers”

## KEY FEATURES

- Universally equipped
- Lightweight & compact design for mobile stack testing
- Set up and starting measuring in real time <15 minutes
- High chemical resistance
- External gauge allows readings to be seen whilst case is closed
- Visible colour case

## Technical Specification

### GENERAL

- Set up time <15 minutes
- Optional paramagnetic O<sub>2</sub> -sensor
- Highly visible yellow casing for use in process environment

### APS FLOW RATE

- APS 301: 350 NI/h
- APS 303 : 350 NI/h
- APS 311: 200 NI/h
- APS 313: 200 NI/h

### SAMPLE INLET

- Sample outlet dew point: +1°C to +15°C, factory setting: +4°C
- Dew point stability: ±0.1°C
- Sample inlet temperature: Max.190°C
- Sample inlet connection: Stainless steel connection DN4/6mm, suitable for heated sample lines
- Sample inlet dew point: Max. 80°C

### OPERATING TEMP & PRESSURE

- Ambient temperature: +5°C up to +45°C
- Maximum pressure: 3 bar abs
- Storage temperature: 25 °C up to +65 °C
- Maximum pressure: 3 bar abs

### POWER

- Power supply: 230V/50Hz or 115V/60Hz
- Power consumption: 100VA
- Electrical connection: Cold appliance plug with 1.5 m of cable
- Electrical protection: Fuse 2A
- Electrical equipment standard: EN61010

### PERFORMANCE

- Alarm contact: Free programmable contact 1NO / 1NC, rating: 250V, 16A AC
- Total cooling capacity: Max. 245kJ/h (2 Peltier elements)

### PHYSICAL

- Dimensions: 52.4cm x 42.8cm x 20.6cm (W x H x D)
- Weight: Approx. 12 kg
- Number of gas inlets: 1
- Number of gas outlets: 1 (standard), max. 2
- Diaphragm pump: AMP 11P: Head: PPS, Valves: FFPM, Membrane: PTFEcoated
- Filter: head, element holder: PVDF, filter element: PTFE, body: Duran® glass
- Peristaltic pump: Tube: Novoprene®, Connectors: PVDF

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