



## APS Portable Gas Conditioning System

### Description

The **Ankersmid Portable Gas Conditioning System APS** is a high performance portable gas conditioning system designed for emissions testing and process monitoring so that detailed gas analysis (variable, short term discontinuous operation) can be carried out at any time and in any place. The entire gas conditioning system is housed in a compact and robust carrying case which ensures that the components can be removed easily and gas analyses carried out quickly, safely and with minimum maintenance.

The APS ensures reliable sample preparation without loss and prevents damage on the analysis system used downstream.



### Applications

The **Ankersmid Portable Gas Conditioning System APS** is suitable for a large range of application in the field of emissions monitoring and process control. It has already been adopted by many stack testers around the world.

## APS Key Features

- Large range of options including O2 sensor, liquid alarm, dual flowmeter...
- Compact design and universal applicability
- PFA coated heat exchanger and PTFE sampling pump
- Test gas port
- Low temperature alarm contact
- Extremely stable dew point stabiliser set at 4°C adjustable at any value between 1 and 15°C
- TUV certified performances
- Optional quick lock system
- Ankersmid Sampling BVBA patented design
- Low maintenance and ease of operation



# APS Portable Gas Sample Conditioning System

With the optional thermostatic O2 sensor [APS100](#), the gas conditioning system becomes a suitable and reliable instrument for monitoring oxygen concentrations in various gas analytical applications including process gasses, emissions monitoring, ambient air in confined space and laboratory process control measurement. The [ASP](#) equipped with the internal heated line temperature controller [APS007](#), the liquid alarm [APS006](#) can be set online for continuous monitoring. The sampling pump is controlled based on the probe, heated line and cooler temperatures. In addition if sample condensates are detected, the sampling will automatically be interrupted to protect the instruments installed downstream.



## APS Specifications

### CONSTRUCTION & ENVIRONMENT

Dimensions	Approx. 53 x 43 x 21 mm (W x H x D)
Weight	12 kg
Heat exchanger coating	PFA
Integrated filter	Head, element holder: PVDF, Filter element: PTFE, body, DURAN glass - Porosity 2 microns
Diaphragm Pump	AMP11P- Head: PPS, Valves: FFPM, Membrane: PTFE-coated
Peristaltic Pump	Tube: Novoprene, Connectors: PVDF
Others	Tubing: PTFE, Inlet connector:SS316, Outlet connector: PVDF
Number of gas inlet/outlet	1 sample inlet - 2 max. sample outlet
Housing	Portable heavy duty ABS case
Ambient / storage T°	Ambient +5 to +45°C / Storage -25 to +65°C
Relative humidity	10 to 80%

### ELECTRICAL UTILITIES

Power supply	110 - 240 VAC 50 / 60 Hz
Consumption	100VA
Electrical equipment standard	EN610010
Electrical connection	Cold appliance plug with 1.5m of cable
Electrical Protection	2A fuse
Alarm contact	Free programmable contact 1 NO/NC, rating 250VAC, 16 A AC
Warming up	Less than 15 min

### SAMPLE

Max. Gas flow rate	APS303: 350NI/h - APS313: 200NI/h
Sample outlet dew point	1 to 15C adjustable set point, factory set at 4C
Dew point stability	+/- 0.1C
Max sample temperature	190C at the inlet
Max. Sample pressure	3 bar abs.
Sample inlet connection	SS316 DN4/6 or 1/4"OD tube fitting
Sample inlet dew point	Max. 80C
Total cooling capacity	Max. 245kJ/h (2 Peltier elements)

