

AQUAGAS



MONITORING
SYSTEMS

ASS® Stationary Gas Sampling System

Description The **ASS Stationary Sampling System** is a high performance complete gas conditioning system designed for CEMS - Continuous Emissions Monitoring and process control. The entire gas conditioning system is delivered ready for installation in cabinets, rack or wall mounted.

The ASS features fully automated sampling sequences, sample flow adjustment, continuous water vapour and sample condensate removal, particulate filter and a PFA coated heat exchanger coupled with a powerful Peltier cooler. Its design and construction ensure **reliable sample preparation without loss and prevents damage** on the analysis system used downstream with a sample outlet dew point at 4°C.



Applications The **ASS Stationary Sampling System** is suitable for a large range of application in the field of emissions monitoring and process control including coal fired power station, gas turbines, waste incinerator, refineries, cement plant, biogas and syngas production.

APS Key Features

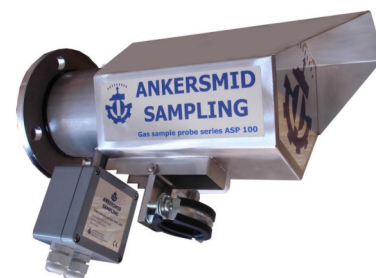
- Large range of options including O2 sensor, liquid alarm, dual flowmeter...
- Compact design and universal applicability
- PFA coated heat exchanger and PTFE sampling pump
- Test gas port
- Low temperature alarm contact
- Extremely stable dew point stabiliser set at 4°C adjustable at any value between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



ASS Stationary Sampling System

The **ASS** features an **extensive range of options** to enable **efficient integration** and to add **essential functions** to your CEMS and analysis equipment.

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. With the optional **O2 sensor**, the gas conditioning system becomes a suitable and reliable instrument for monitoring oxygen concentrations in various gas analytical applications.



APS Specifications

CONSTRUCTION & ENVIRONMENT

Dimensions	500mm x 400mm x 3mm (W x H x D)
Weight	8 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
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)

