



ANKERSMID
Sampling

Company profile

ANKERSMID® is well-known on the market for more than 30 years now and subsidiaries in several countries (Belgium, Netherlands, France, China, Romania, Germany etc.) with more than 100 employees world-wide assures **ANKERSMID®** in a leading position in the field of gas sampling and laboratory equipment.

We are market leader for environmental particle sizing applications with our own developed and produced laser-based analyzers series Eyetechn®.

ANKERSMID® is a privileged partner of several companies like Siemens, BASF, Bayer, Umicore, Dräger and many more.

As our goal is to always provide competitive and innovative products, **ANKERSMID® Sampling** as an **ANKERSMID®** company now provides the complete range of gas sampling and gas conditioning equipment. All our products like gas sample probes, gas coolers, compact conditioning systems, universal filters etc. are designed, manufactured and world-wide distributed by ourselves.



Head Office in Wilrijk/Belgium




Product overview

Gas Sample Probes Series ASP

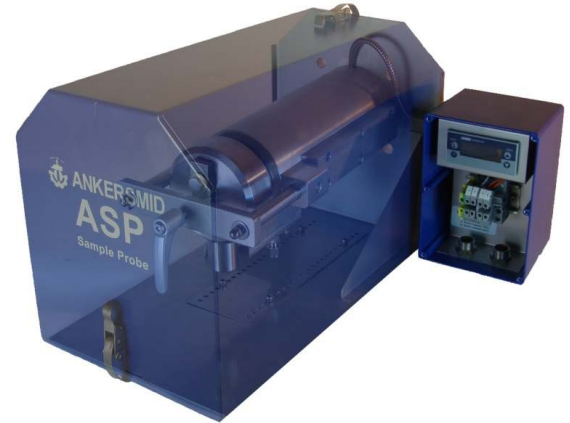
The gas sample probes series **ASP** are designed for continuous gas sampling in difficult processes with gases of high or low dust content, different temperatures and extreme humidity.

Depending on the dust loading the ASP probe is available in 3 different lengths (300/400/500mm) and therefore suitable for applications from low to very high dust loadings (e.g. cement applications).

In regards to on the acid dew point, the standard probe operates at 180°C or when necessary with a high temperature version at 320°C (e.g. for Denox applications).

 For hazardous areas explosion-proofed and fully certified sample probes (ATEX) are available.

Additional a wide range of sample tubes for process temperatures up to 1800°C and are available as well as heated sample tubes (180°C/320°C). Solutions and equipment can be provided for most applications (e.g. wet scrubber).




Heated Sample Lines Series AHL

The electrically heated sample lines are designed to be connected to all Ankersmid sample elements. The heated line ensures gas components in the sample stream remain above their ACID-dew point, and thereby eliminates the risk of condensation.

This is a safe way to transport the sample to a heated analyzer or the special Ankersmid sample gas coolers.

A wide range of sample lines designed for various applications as available; e.g. self-limiting sample lines for anti-freeze protection (max. +120°C) and controller regulated sample lines for very stable gas temperatures (+100/200/250°C).

 For hazardous areas explosion-proofed and fully certified sample lines (ATEX) are available.

For regulated sample lines various temperature controller (rail-mount/wall-mount) are available.



Compressor Gas Coolers Series ACC

The ACC coolers are offering precision, safety and long-term stability for extractive analytics. The unique cooling and separating technology of the newly designed coolers attains low, constant dew points of +4°C and compensates for operating data fluctuations as well as high thermal loads. The very low gas dissolution rate is attained owing to the new cooler technology (Patents applied). The new cooler incorporates an advanced structural design with a housing suitable for both wall-mounting and 19"-racks.

The new design enables up to 4 heat exchangers and peristaltic pumps for continuous condensate removal at each heat exchanger to be incorporated either at the factory or at a later time, without any problem.

Various options like flow meter and front panel filter can be incorporated into the cooler housing for each gas path.

Heat exchangers are available in various materials, to meet specific application requirements.

An electronic system not only monitors the dew point, but also the ambient temperature. The integrated fan is switched on by the controller when needed depending on the ambient temperature.



Peltier Gas Coolers Series APC

This unique microprocessor controlled Peltier Cooler has been designed with a powerful dew point stabilizer. The dew point is set at 4°C but can be changed at any value between 1 and 15°C. The condensate that is formed should be removed by a peristaltic pump, automatic drain or collection vessel.

3 possible exchanger materials: Glass body with PTFE head; PVDF body with PTFE head or completely out of stainless steel.

The digital controlled cooler has many control and warning features like programmable alarms, digital inputs and Modbus or RS485 communication.

The universal housing is designed for 3 different versions; 1x 150NI/h, 2x 150NI/h or 1x 350NI/h

One of the important available features is the humidification of calibration gases to avoid volumetric errors. Humidification is achieved with a special inlet for liquids. During calibration the heat exchanger dries out due to the dry calibration gas; this volumetric change is important for reference measurements. Injection of liquid during calibration can avoid this issue.





Universal Filter Series AUF

Ankersmid Universal Filters are known as a reliable technique for the separation of particles from gas, ensuring a flow of clean gas to the analyzer. Filter housings in a variety of materials and standard dimensions are available.

The design of the filter and filter housing also ensures that any liquids present in the gas will be separated from the gas. Due to its universal standard dimensions and functionality, the filter elements can also be used with any commercially available filter housings. The filters are easily replaced without the use of any additional tools. Where needed, a liquid sensor or liquid drain can be installed at the bottom of the filter body.

Due to the modular design various filter and separator solutions are available, e.g. adsorption filter, ambient air suction filter, humidifier, wash bottles, aerosol/liquid particle filter and front panel filter.



Gas Conditioning Systems Series APS/ASS/ADS

The Ankersmid gas conditioning systems have been designed so that detailed gas analyses can be carried out at any time and in any place.

The portable gas conditioning system APS 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. This system is suitable for variable, discontinuous and continuous operation. Optional an integrated O₂-sensor is available.

The stationary gas conditioning system ASS is installed on a mounting plate for wall-mounting and installation in cabinets.

The digital gas conditioning system ADS has been designed for continuous use and is equipped with a touch-screen PLC which is designed in a compact 19"-housing and can be fully integrated into a gas analysis system. The innovative programmed PLC with touch-screen provides a comprehensive desktop with separate pop-up menus to check and control all integrated parts like the Peltier cooler, flow sensor, a liquid sensor and several check valves for zero gas and calibration gases as well as external devices. Furthermore the PLC is able to control an external heated sample line and a gas sample probe.





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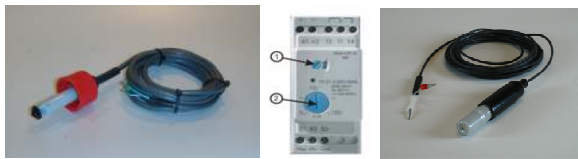
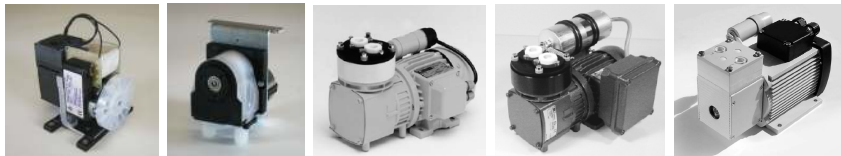
Complete Gas Analysis Equipment from One Source

Additional to our self-designed, developed, and manufactured products like sample probes, compressor and Peltier gas cooler, universal filter, gas conditioning systems, liquid stops and alarm sensors we also provide the full range of gas analysis equipment, e.g. NOx-converter, fast loop sampler, heated sample lines, peristaltic pumps, diaphragm vacuum pumps, flow meter, valves, connectors, manifolds, gas panels, pressure regulators and tube/pipe fittings made of several materials like PVDF, PP, PA and stainless steel.

Some of these products are designed in a close cooperation with well-known and market leading manufacturers to meet our high demands and are only available exclusively at Ankersmid Sampling.



Many products are available in explosion-proofed versions for use in hazardous areas according to ATEX.



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