Ankersmid Sampling

Control Module ACM, NO_2-NO converter AOX

The Control Module Series ACM for 19"-rack mounting is a modular system with an integrated Siemens S7 touchscreen PLC and used as a compact all-in-one device to monitor and control all gas sampling and gas conditioning equipment such as sample probe, cooler, sample line, pump and flow of gas media.

The NO_2 to NO converter Series AOX can be connected to a NO_x or NH_3 gas analyzer for flue exhaust. The converter is using a special catalyst that converts NO_2 in sample gas to NO with high efficiency.

Applications:

Continuous emission monitoring (CEM)

Gas analysis systems

Chemical and petro-chemical industry

Automatic calibration featuring most analyzers

Back-purge automatic, manual or flow dependent

High temperature combustion processes

Numerous useful pre-installed maintenance and alarm features

"A tailor-made all-in-one solution"

Reference customers:

SIEMENS ABB umicore BASF The Chemical Company

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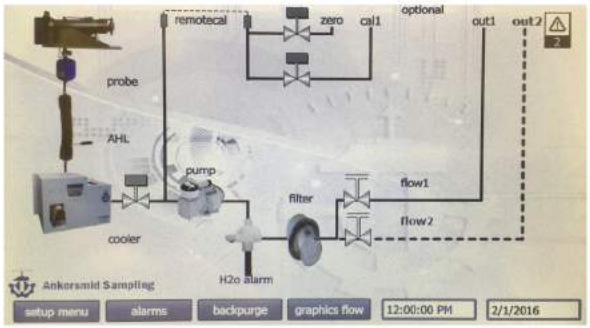
Control Module Series ACM

The ACM Module has a Siemens Touch-screen PLC S7, panel filter type APF, moisture sensor ALA 002, up to 5 calibration valves (standard zero & span) for calibration via cooler or probe, back-purge output, ultrasonic flow sensor and a gas pump integrated. Depending on the ACM version the gas pump can be flow-adjusted.
A remote control for calibration and back-purge as well as MODBUS and USB-output and output alarm relays are implemented.
The gas flow is measured and monitored by an integrated ultrasonic flow sensor. High/low flow alarm levels can be set customized. Up to 2 outputs for flow measurement.
The PLC S7 is able to monitor and control a heated gas sample probe and furthermore to operate various back-purge procedures.
The integrated optical moisture sensor can detect any kind of liquid, conductive and non-conductive. The gas pump will be switched-off automatically in case of liquid inrush.



- **Touch-screen PLC Siemens S7 with tailor-made software**
- **Ultrasonic flow sensor**
- **Flow-controlled gas pump with pull-out system for easy access**
- **Optical moisture sensor for automatic gas pump switch-off**
- **With USB and MODBUS interface**
- **Compact housing for 19”-racks**

www.ankersmidsampling.com

NO_2-NO converter Series AOX

The NO_2 to NO converters series AOX are to be coupled with a NOx or NH3 gas analyzers for flue exhaust as in many countries clean-air regulations require a continuous measurement of NO_x (nitrogen oxides) - as the sum of NO_2 (nitrogen dioxide) and NO(nitrogen monoxide) - for combustion processes as soon as the part of NO_2 exceeds 5% of the total NO_x emission.

The converter is using a special molybdenum catalyst which efficiently converts NO_2 in sample gas to NO. Thanks to the innovative catalyst composition the device is operating at a moderate temperature of +225°C.

A special carrier material ensures that no CO-emission is created in the converter.

- **High flow rate at long operating time and high conversion efficiency (98% with new cartridge)**
- **Special Molybdenum catalyst for zero CO emission and moderate operating temperature of +225°C**
- **Digital PID-controller with high/low-temperature alarm**
- **Catalyst cartridge easy to change without any tools**
- **DIN housing for 19"-rack mouting**
  Mini housing for universal mounting
- **Integated version in a sintered steel filter for direct operation in a heated sample probe**

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