

The logo consists of the letters 'OGS' in a bold, white, sans-serif font, centered on a dark green rectangular background.

Omicron Direct Gas Sampling
from Autronica Fire and Security

Reliable gas detection in sensor unfriendly environments

Within the Petrochemical, Oil, & Gas market there are many areas that require continuous monitoring of gas hazards where the environmental conditions are such that gas sensor installation is impossible.

Our Omicron Direct Sampling system is specially designed for these types of challenges. Based on our proven gas detection technology we designed a unique system that combines the benefits of both gas sampling and point gas detection, providing the best possible level of protection for these challenging applications.



AUTRONICA

Protecting life, environment and property

Operating principle

The heart of the system is the zone 1 detector cabinet. This enables the gas detectors to be located in a clean and controlled environment as close as possible to the location that needs to be monitored, limiting the distance the gas needs to travel and therefore ensuring fast and reliable gas detection resulting in safe operating conditions.

Each individual detection point is directly connected to a dedicated IR sensor via a distinct sampling line. This direct sampling loop is continuously monitored to ensure sufficient gas flow as well as proper operation. The detection and flow signals from the detector cabinet are hardwired to a control and alarm panel located in a safe area.

Standardized

The Omicron Direct Sampling System is tailor made to cost efficiently meet the most regular applications within the Oil & Gas market. It is ejector based and equipped with a standard 3 sampling lines in order to provide a good coverage by at same time maintaining short sample times. The 4 – 20 mA sensor outputs as well as the Namur digital flow signal outputs can easily be connected to any typical 3rd party alarm and control system or an Omicron alarm & control cabinet.

The system furthermore contains a manual selection panel for purging and calibration as well as shut off valves for disconnection of the individual sample points.

Cold weather version

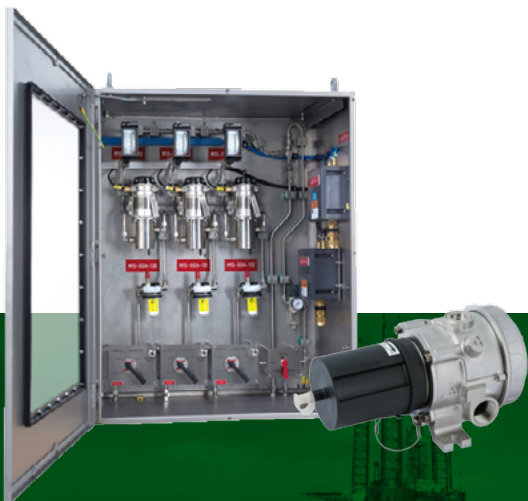
Besides the regular system an extended cold weather version is available. The cold weather variant is equipped with a 300W Ex d IIC approved heating element enabling the system to tolerate temperatures far below freezing point and making it suitable for operations in the northern fields.

Features

- 3 sampling points
- Zone 1 design
- Infrared hydrocarbon sensors with range 0 - 100% LEL
- Low and high gas alarms
- Flame arrestor and shut off valves for each sampling line
- Ejector based sampling
- Continuous system verification
- Intrinsically safe flow meters and switches
- Gas filter for sampling line
- Manual selection panel for purging and calibration

Specifications

EX classification:	Zone 1 2 G IIB T4 Gb
Number of sampling points:	3
Sensor type:	Autropoint HC 200
Range:	0 – 100% LEL
Sensor Signal Output:	4 – 20 mA
Purge air supply:	6 – 8 bar (instrument air)
Power supply, heater:	230 V AC Nom.
Flow Signal Output:	Namur digital
Alarm for clogged tubes:	Yes
Ambient air temperature:	5 – 40°C -25 – 40°C (cold weather ver.)
Type fittings:	Swagelok
Type cable glands:	CMP



Contact us today for more information,
info@autronicafire.no / +47 90 90 55 00

Autronica Fire and Security
Special Detection Competence Center
Stalsbergvn. 9, NO-3128 NØTTERØY



Protecting life, environment and property