

Product Profile

Optical Gas Spectrometer (OGS)

Experience the future of gas analysis with our compact Raman-based OGS. It enables you to detect a wide range of gases at a glance and is ready for hydrogen and natural gas applications.



Multi-gas inspection of molecular based gases



Multi-gas. Molecular gases especially H_2 , N_2 , O_2 , H_2O , CH_4 , and others



Fast & accurate. 0.1 vol% in less than 10s, longer analysis time for 0.01 vol%



Inline operation. Up to 40°C and 40bar



Easy data analysis. Signal is strongly linear to gas density and analysis time



Emission free. No emission of the analyzed gas



Cost-effective. Easy installation and calibration, no carrier gas required



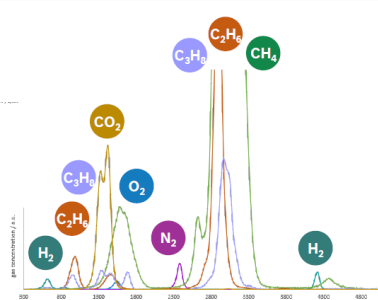
Small size. 19-inch rack design compatible

Plug & measure

inline and at high pressure (w/o probe extraction and carrier gas)

OGS applications fit - 2024

Natural gas



Gas matrix

C1-C5, C6+, N2, O2, CO2, H2

Use cases

- Natural gas composition
- Gas-to-Power

Hydrogen



Gas matrix

O2, N2, H2O, H2

Use cases

- Fuel cell development and production
- H2-Sensor reference

	Prototype Q4.2023	OGS Serie Q2.2024
Pressure	1 – 10 bar abs.	1 – 40 bar abs.
Gas temperature	5 – 35°C	5 – 40°C
Environment temperature	15 – 25°C Up to 30°C with detection limit higher than spec.	5 – 40°C Up to 30°C with detection limit higher than spec.
Max. humidity	< 90% rel. No condensation allowed in gas path	< 90% rel. No condensation allowed in gas path
Detection limit	300 ppm*	100 ppm
Measuring time	10 ms to 10 min.	10 ms to 10 min.
Flow rate	typical 1L/min	typical 1L/min

* Depending on gas matrix