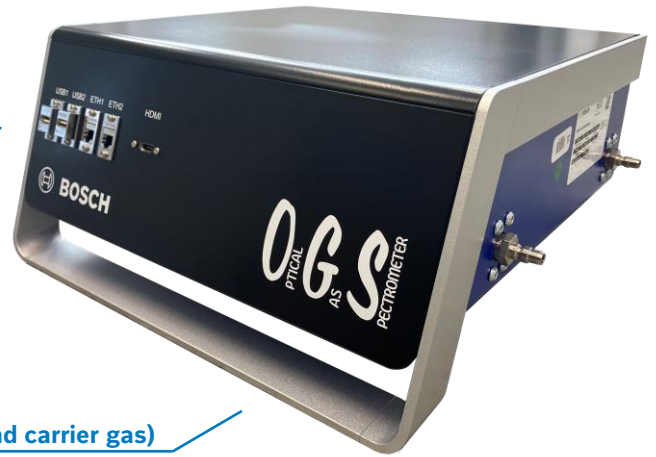
Product Profile
Optical Gas Spectrometer (OGS)

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

H_2 N_2 O_2 H_2O CH_4 others

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



- **Fast & accurate:** 0.1 vol% in less then 10 s, longer analysis time for 0.01 vol%
- **Inline operation**: Up to 40 °C and 40 bar
- **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, In/Outlet interface ½ inch

OGS applications fit - 2024

Natural gas

Gas matrix	C1-C5, C6+, N_2, O_2, CO_2, H_2
Use cases	▪ Natural gas composition ▪ Gas-to-Power

Hydrogen

Gas matrix	H_2, O_2, N_2, H_2O
Use cases	▪ Fuel cell development and production ▪ Electrolyzer development and production ▪ H_2-Sensor reference

Your gas mix?

Gas matrix	Your gases
Use cases	Your applications, your analytics

	Prototype Q4.2023	OGS Serie Q2.2024
Pressure	0 – 10 bar abs.	0 – 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*

* Depending on gas matrix