

XP-NIR-SENSOR

Smart Process Sensor

Hellmas process sensors contain all components of a full-sized spectrometer system combined in one compact device. These predeveloped sensors are ready to be tailored to customer needs and the individual application requirements.



XP-NIR-Sensor default configuration

DEFAULT PROPERTIES

Designation	XP-NIR-Sensor
Measurement principle	Transmission
Technology	Micro electro mechanical system (MEMS) / InGaAs
Wavelength range options // corresponding resolution (typical, full width half maximum)	1350 - 1650 nm // 13 - 17 nm 1550 - 1950 nm // 15 - 21 nm 1750 - 2150 nm // 16 - 22 nm 2000 - 2450 nm // 18 - 28 nm
Materials	Windows: Sapphire or quartz
	Housing: stainless steel or aluminum (*others on request)
	Probe: stainless steel 316L (*others on request)
Communication interfaces	Ethernet, bus systems (e.g. Profibus), digital or analogue I/O (OPC, OPC-UA, 4-20mA etc.)
Result calculation	internal
Process interface	tailored to customer requirements
Sample properties	Fluids
Operating pressure	< 40 bar (probe @room temperature)
Operating temperature	< 50°C (housing); 180°C (probe)

All sensor characteristics can be adapted to customer requirements