

Sensors for Oxygen Measurement

SE 740 Optical Oxygen Sensor

Optical oxygen measurement based on fluorescence quenching technology



Flow-independent optical oxygen sensor with fast response. Ideal for measurements in demanding hygienic environments. Steam-sterilizable, autoclavable and CIP-capable.

Applications

Food, pharmaceutical, fermentation, and industrial process

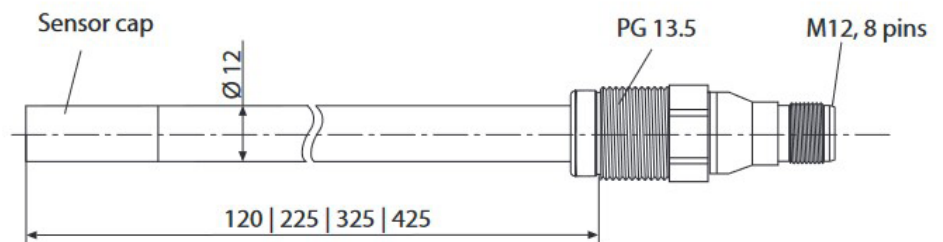
Facts

- Flow-independent measuring principle
- No polarization required
- Replaceable sensor element
- Integrated wear monitoring
- Inspection Certificate 3.1, Ra < 16 µin
- Gaskets conforming to FDA and USP VI
- Reliable digital communication with Stratos Multi and Evo

Specifications

Measuring range:	4 ppb / 0.05 ... 300 % saturation
Resolution:	0.1 ppb
Response time at 25 °C (air → N ₂):	98 % full scale < 30 s
Pressure range	Max. 174 psi (12 bar)
Temperature range:	14 ... 266 °F (-10 ... 130 °C) measurements: 32 ... 176 °F (0 ... 80 °C)
O-ring material:	Silicon and FKM (Viton)
Process-wetted sensor parts:	Stainless steel 1.4435
Temperature detector:	NTC 22 kohms
Process adaptation:	Pg 13.5
Sensor cap:	M12 (8 pins)

Dimensional Drawing



All dimensions in mm

Product Line		Length	Order No.
SE 740 optical oxygen sensor		120 mm	SE 740/1
		215 mm	SE 740/2
		325 mm	SE 740/3
		425 mm	SE 740/4
Cable			Order No.
M 12 cable*)	8 pins	5 m	CA/M12-005N485
		10 m	CA/M12-010N485
M 12 extension cable	8 pins	10 m	CA/M12-010M12-8
Accessories			Order No.
Sensor cap, silicone			ZU 0914
Sensor cap, PTFE			ZU 0914/PTFE

*) greater lengths on request