

Sensors for Oxygen Measurement

Chem

Energy

Pharm

Food

Water

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, pharmaceuticals, fermentation and process

Facts

- flow-independent measuring principle
- no polarization required
- replaceable sensor element
- integrated wear monitoring
- stainless steel 1.4435, Inspection Certificate 3.1, Ra < 0.4 µm
- gaskets conforming to FDA and USP VI
- temperature range: -10 ... 130 °C measurements: 0 ... 80 °C
- pressure range: -1 ... 12 bar
- measuring range: 0.05 ... 300 % saturation
- reliable digital communication with Stratos 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 P _{rel} :	-1 ... 12 bar
Temperature range:	-10 ... 130 °C measurements: 0 ... 80 °C
O-ring material:	silicone 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)



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/M12-005NA-8
		10 m	CA/M12-010NA-8
M 12 extension cable	8 pins	10 m	CA/M12-010M12-8
Accessories			Order No.
Sensor cap			ZU 0914

*) greater lengths on request

Dimension Drawing

