

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

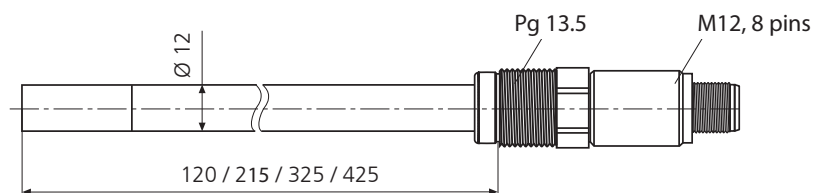
Facts

- 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: max 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	max. 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)

Dimension Drawing



All dimensions in mm

For up-to-date information, please visit www.knick.de

Isolation Amplifiers
Transmitters

Indicators

Process Analytics

Portable Meters

Laboratory Meters

Sensors

Fittings

Knick 

Product Line

SE 740 optical oxygen sensor

Length

120 mm

215 mm

325 mm

425 mm

Order No.

SE 740/1

SE 740/2

SE 740/3

SE 740/4

Cable

M 12 cable*)

8 pins

5 m

10 m

M 12 extension cable

8 pins

10 m

Order No.

CA/M12-005NA-8

CA/M12-010NA-8

CA/M12-010M12-8

Accessories

Sensor cap

Order No.

ZU 0914

*) greater lengths on request