

# Sensors for Oxygen Measurement

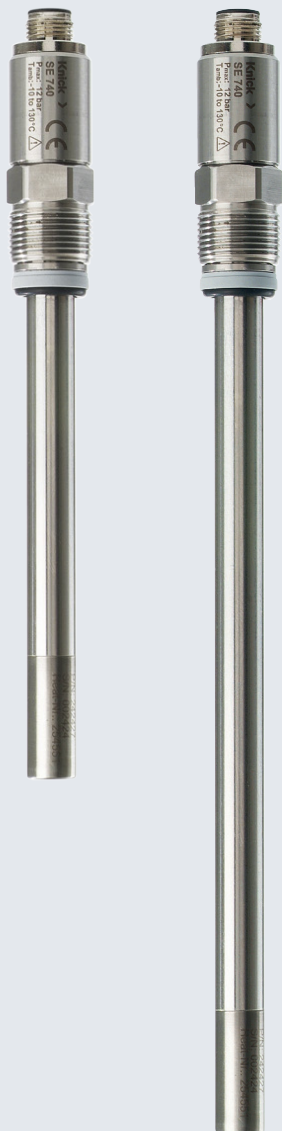
Chem

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

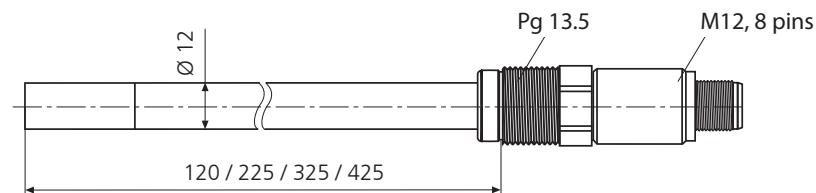
### Facts

- 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 <sub>2</sub> ):	98 % full scale < 30 s
Pressure range P <sub>rel</sub> :	–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)

### Dimension Drawing



All dimensions in mm

For up-to-date information, please visit [www.knick.de](http://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