

# 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

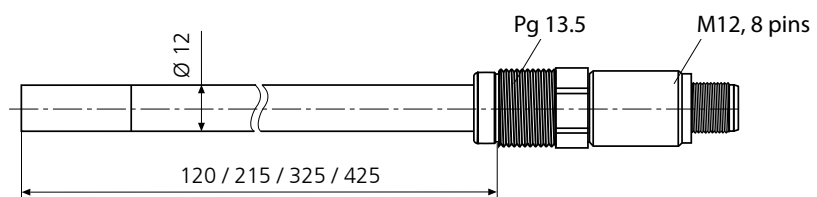
### Facts

- Flow-independent measuring principle
- No polarization required
- Replaceable sensor element
- Integrated wear monitoring
- Inspection Certificate 3.1, Ra < 16 µm
- Gaskets conforming to FDA and USP VI
- 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	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

## New England - ETA Process Instrumentation

119 Foster Street, Bldg #6  
 Peabody, MA 01960  
 Tel: (978) 532-1330  
 www.etapii.com  
 sales@etapii.com

## Upstate NY - Martech Controls

2000 Teall Avenue  
 Syracuse, NY 13026  
 Tel: (315) 876-9120  
 www.martechcontrols.com  
 sales@martechcontrols.com

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

\*) greater lengths on request