

VISIBEV DO 120 Oxygen Sensor



Anton Paar VISIBEV DO 120

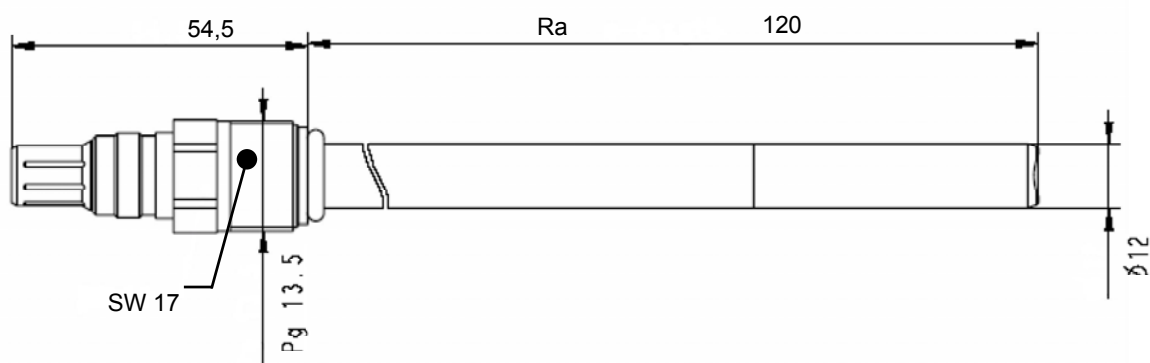
The VISIBEV DO 120 is an optical oxygen sensor with integrated opto-electronics, having the full functionality of a measuring device with self-diagnostics. It is steam sterilizable, autoclavable and CIP compatible (tested with 1.0M NaOH, 90°C). The Visibev requires less maintenance than a classical oxygen sensor as it does not have a mechanically sensitive membrane or a corrosive electrolyte.



Cross sensitivities and resistances

- No interference with: CO₂, H₂S, SO₂
- Resistant against ethanol, methanol, H₂O₂, ethylene oxide, beta-gamma irradiation
- Not resistant against chlorine gas and other organic solvents such as chloroform, toluene, acetone, hexane

Dimensional Drawing



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Specifications

Measuring range:	4 ppb/0.05% ... 300% air saturation
Accuracy at 25°C:	1 ± 0.05 %-vol; 21 ± 0.2%-vol; 50 ± 0.5 %-vol
Detection limit:	0.01 %-vol
Response time $t_{98\%}$:	< 30 s at 25°C, from air to nitrogen
Oxygen consumption:	none
Required flow:	none
Drift at room temperature under constant conditions:	< 0.2 %-vol oxygen per week in air at 30°C
Storage temperature:	-10 ... 50°C
Operation temperature:	-10 ... 130°C; the sensor provides no DO reading above 80°C
Pressure range:	-1 ... 12 bar / 174 psi; pressure spikes up to 80 bar
Measurement principle:	Oxygen dependent luminescence quenching (phase angle)
Medium affected materials:	Stainless steel 316L/DIN 1.4435; Silicone and EPDM with FDA approval
Mounting:	PG 13.5 – thread
Surface quality of steel:	Ra = 0.4 µm / N5
Connector head:	VP 8.0 Variopin connector with PG 13.5
	<ul style="list-style-type: none"> • 7 ... 30 VDC operating voltage • Continuous power approx. 0.6 W • Start-up Power max. 1 W • Freely scalable 4-20 mA current interface (current sink) for a temperature compensated oxygen measuring signal.
Electrolyte:	None
After starting the power supply, no polarisation is necessary. 2 min are necessary for very stable measuring values.	

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Material numbers

Cobrix3 option	
Oxygen Sensor VISIBEV DO 120 Process Version	89654
Mounting Set for Oxygen Analyzer VISIBEV DO 120 for Cobrix3	84929
Stand alone	
Oxygen Sensor VISIBEV DO 120 Process Version	89654
Mounting Set for Oxygen Analyzer VISIBEV DO 120	87924
mPDS 2000 Version3 Evaluation Unit	2987