

Dissolved Oxygen

Technical Specifications

Measurement principle	Luminescence	
Parameter	Dissolved Oxygen	
Measurement range	0...20 mg/L 0...20 ppm 0...200 %	
Measurement accuracy	± 0.1 mg/L ± 0.1 ppm ± 1 %	
Resolution	0.01	
Response time	90% of the value in less than 60 seconds	
Measurement interval	> 5 s	
Inflow Velocity	no movement necessary	
Temperature Compensation	Via NTC (compensation active for temperature lower than 0°C)	
Measurement range (temp.)	0...50 °C	
Resolution (temperature)	0.01 °C	
Accuracy (temperature)	0.5 °C	
Membrane Cap	No cross-sensitivity with : pH 1 – 14 ; CO ₂ , H ₂ S, SO ₂ Cross-sensitivity to Organic solvents, such as acetone, toluene, chloroform or methylene chloride Chlorine gas	
Material	Standard Version in passivated Stainless steel 316L body, strainer and screw For Seawater application Version in Titanium body, strainer and screw Cable : polyurethane jacket Steam gland : Polyamide Patch with active material (black) – Membrane : Optical isolation silicon	
Dimensions (L x Ø)	146 mm x 25 mm	
Weight	stainless steel	~ 450 g
	titanium	~ 300 g
Interface	RS-485 (Modbus RTU)	
Power consumption	1 W	
Power supply	12 V (± 10 %)	
Sensor cable	2 m and 10 m	
Maintenance interval	2 years	
Warranty	1 year (EU: 2 years)	
INSTALLATION		
Max. pressure	5 bar	
Protection type	IP68	
Sample temperature	0...+50 °C	
Ambient temperature	0...+50 °C	
Storage temperature	-10...+60 °C	