

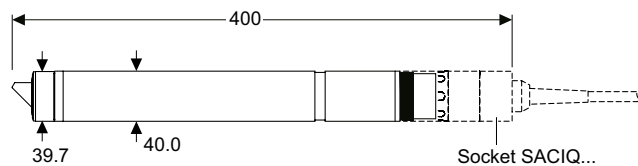
# Digital optical IQ sensors for dissolved oxygen FDO®

Calibration-free, reliable, DIN compliant - the optical FDO® oxygen sensors for the IQ SENSOR NET to regulate biological cleaning steps

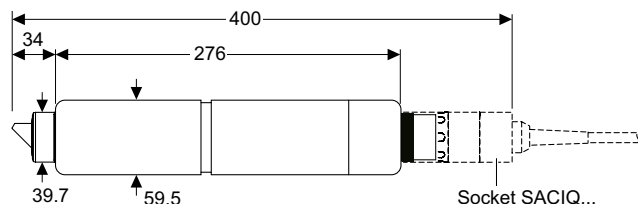
We would like to inform you about the application range on our website



FDO® 700 IQ, FDO® 701 IQ



FDO® 700 IQ SW, FDO® 701 IQ SW



## Technical Data

Model	FDO® 700 IQ	FDO® 700 IQ SW*	FDO® 701 IQ	FDO® 701 IQ SW*
Measuring method	Optical			
Measuring range (25 °C)	<b>O<sub>2</sub> concentration</b> 0 ... 20.00 mg/l (0 ... 20.00 ppm) <b>O<sub>2</sub> saturation</b> 0 ... 200.0 %			
Resolution	<b>O<sub>2</sub> concentration</b> 0.01 mg/l (0.01 ppm) <b>O<sub>2</sub> saturation</b> 0.1 %			
Accuracy	< 1 mg/l (ppm): ± 0.05 mg/l (ppm) > 1 mg/l (ppm): ± 0.1 mg/l (ppm)			
Response time at 25 °C	t <sub>90</sub> : < 150 s t <sub>95</sub> : < 200 s		t <sub>90</sub> : < 60 s t <sub>95</sub> : < 80 s	
Minimum flow rate	No flow required			
SensCheck	Monitoring of membrane function			
Temp. measurement	Integrated NTC, 23 °F ... 140 °F (-5 °C ... +60 °C) ± 0.5 °C			
Temp. compensation	23 °F ... 122 °F (-5 °C ... +50 °C)			
Pressure Resistance	10 bar (incl. sensor connection cable)			
Ambient Conditions	23 °F ... 122 °F (-5 °C ... +50 °C) -13 °F ... 122 °F (-25 °C ... +50 °C)		23 °F ... 104 °F (-5 °C ... +40 °C) -13 °F ... 104 °F (-25 °C ... +40 °C)	
Electrical connections	2-wire shield cable with quick fastener to sensor			
Electromagnetic Compatibility	EN 61326, Class B, FCC Class A; Intended for indispensable operation			
Certifications	CE, cETL, ETL			
Mechanical	Sensor cap, fixation: POM, PVC, silicone, PMMA sensor body: VA stainless steel 1.4571 protection type IP 68			
Weight (without cable)	1.98 lb (900 g)	3.31 lb (1.5 kg)	1.98 lb (900 g)	3.31 lb (1.5 kg)
Warranty	2 years for defects in quality			

\* SW: Sensor as sea water model (with plastic arming (POM))

Model	Description	Order No.
FDO® 700 IQ	Optical O <sub>2</sub> sensor for connection to the IQ SENSOR NET. (Please order cable separately)	201650
FDO® 701 IQ	like the FDO® 700 IQ, but with a faster response time	201660
FDO® 700 IQ SW	like the FDO® 700 IQ, but as sea water model with plastic arming (POM)	201652
FDO® 701 IQ SW	like the FDO® 700 IQ SW, but with a faster response time	201653