

# Digital optical IQ sensors for dissolved oxygen FDO®

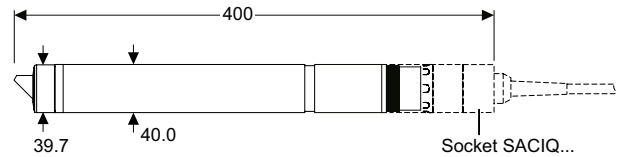


Calibration-free, reliable, DIN compliant - the optical FDO® oxygen sensors for the IQ SENSOR NET to regulate biological cleaning steps

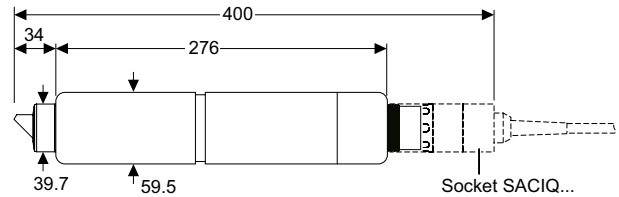
We would like to inform you about the application range on our website



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

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

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