

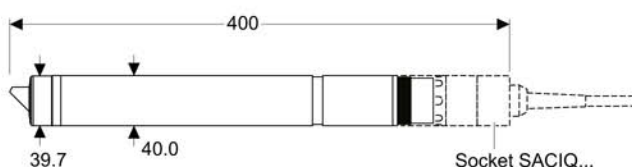


# Digital optical IQ sensors for dissolved oxygen FDO®

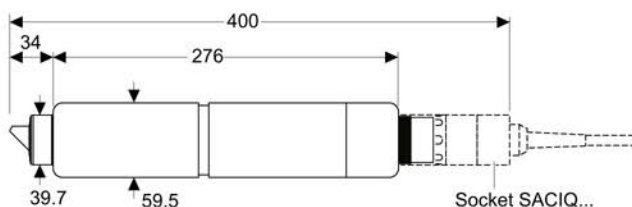
Calibration-free, reliable, DIN compliant - the optical FDO® oxygen sensors for the IQ SENSOR NET to regulate biological cleaning steps

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



شرکت ابزار طب  
 واحد کده تجهیزات  
 (تولیدکننده - تجهیزات - علم)  
 تأسیس ۱۳۶۳

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## Technical Data

| Model                         | FDO® 700 IQ   | FDO® 700 IQ SW*  | FDO® 701 IQ  | FDO® 701 IQ SW*  |
|-------------------------------|---|------------------|--|------------------|
| Measuring method              | Optical   |                  |  |                  |
| Replacement caps              | SC-FDO® 700 with a working life of 2 years with authorized use  |                  | SC-FDO® 701 with a working life of 6 months with authorized use              |                  |
| Measuring range (25 °C)       | <b>O<sub>2</sub> concentration</b> 0 ... 20.00 mg/l<br>(0 ... 20.00 ppm)<br><b>O<sub>2</sub> saturation</b> 0 ... 200.0 % |                  |  |                  |
| Resolution                    | <b>O<sub>2</sub> concentration</b> 0.01 mg/l<br>(0.01 ppm)<br><b>O<sub>2</sub> saturation</b> 0.1 %                       |                  |  |                  |
| Accuracy                      | < 1 mg/l (ppm): ± 0.05 mg/l (ppm)<br>> 1 mg/l (ppm): ± 0.1 mg/l (ppm)   |                  |  |                  |
| Response time at 25 °C        | t <sub>90</sub> : < 150 s<br>t <sub>95</sub> : < 200 s  |                  | t <sub>90</sub> : < 60 s<br>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)<br>-13 °F ... 122 °F (-25 °C ... +50 °C)  |                  | 23 °F ... 104 °F (-5 °C ... +40 °C)<br>-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;<br>Intended for indispensable operation   |                  |  |                  |
| Certifications                | CE, cETL, ETL   |                  |  |                  |
| Mechanical                    | Sensor cap, fixation: POM, PVC, silicone, PMMA<br>sensor body: VA stainless steel 1.4571<br>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    |
| SC-FDO 700     | Universal sensor cap for FDO® 700 IQ/700 IQ SW   | 201654    |
| SC-FDO 701     | Fast response time sensor cap for FDO® IQ 701/IQ 701 SW  | 201655    |



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