

# Digital optical IQ sensors for dissolved oxygen FDO®

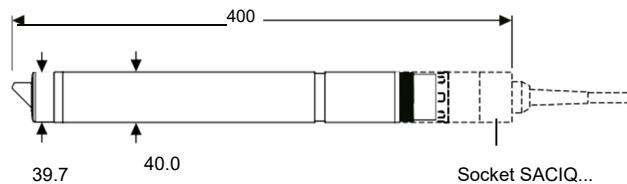
Calibration-free, reliable, DIN compli-

ant - the optical FDO® oxygen sensors for the IQ Sensor Net to regulate biological cleaning steps

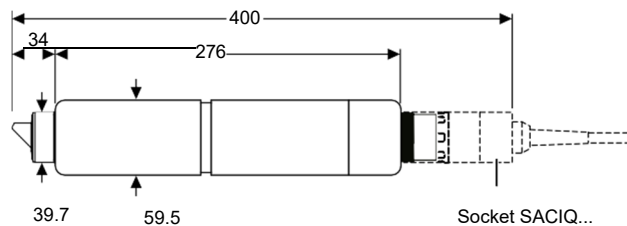
We would like to inform you about the application range on our website



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*  |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------|------------------|
|                    |                                                                                                                           |                  |                                                                              |                  |
| 측정 방법              | Optical                                                                                                                   |                  |                                                                              |                  |
| 측정 범위 (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 % |                  |                                                                              |                  |
| 분해능                | <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 %                       |                  |                                                                              |                  |
| 정확도                | < 1 mg/l (ppm): ±0.05 mg/l (ppm)<br>> 1mg/l (ppm): ± 0.1 mg/l (ppm)                                                       |                  |                                                                              |                  |
| 25 °C 에서의 응답시간     | t <sub>90</sub> : < 150 s<br>t <sub>95</sub> : < 200s                                                                     |                  | t <sub>90</sub> : < 60 s<br>t <sub>95</sub> : < 80 s                         |                  |
|                    |                                                                                                                           |                  |                                                                              |                  |
| 최소유량<br>SensCheck  | No flow required<br>Monitoring of membrane function                                                                       |                  |                                                                              |                  |
|                    |                                                                                                                           |                  |                                                                              |                  |
| 온도 측정              | Integrated NTC, 23 °F ... 140 °F (-5 °C ... +60 °C) ± 0.5 °C                                                              |                  |                                                                              |                  |
| 온도 보상              | 23 °F ... 122 °F (-5 °C ... +50 °C)                                                                                       |                  |                                                                              |                  |
| 압력 저항              | 10 bar (incl. sensor connection cable)                                                                                    |                  |                                                                              |                  |
| 주변 조건              | 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) |                  |
| 전기 연결              | 2-wire shield cable with quick fastener to sensor                                                                         |                  |                                                                              |                  |
| 전자기 호환성            | EN 61326, Class B, FCC Class A;<br>Intended for indispensable operation                                                   |                  |                                                                              |                  |
|                    |                                                                                                                           |                  |                                                                              |                  |
| 인증                 | CE, cETL, ETL                                                                                                             |                  |                                                                              |                  |
| 기계 구성 요소           | Sensor cap, fixation: POM, PVC, silicone, PMMA<br>sensor body: VA stainless steel 1.4571<br>protection type IP 68         |                  |                                                                              |                  |
| 무게 (without cable) | 1.98 lb (900 g)                                                                                                           | 3.31 lb (1.5 kg) | 1.98 lb (900 g)                                                              | 3.31 lb (1.5 kg) |
|                    |                                                                                                                           |                  |                                                                              |                  |
| 보증 기간              | 2 years for defects in quality                                                                                            |                  |                                                                              |                  |