



Optical IQ Dissolved Oxygen Sensors - WTW



Dissolved oxygen sensor

~~Price Net 728,00 €~~

Sales price without tax 778,00 €

Tax amount

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Manufacturer [Borgmann Aquaponik Hydroponik](#)

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Dissolved oxygen sensor

Digital, optical, calibration-free oxygen sensors

Reliable, DIN-compliant – the optical FDO® oxygen sensors

- Calibration and flow-free
- Insensitive to air bubbles
- Low consumption costs

The FDO® sensors are the perfect solution for measuring dissolved oxygen. In addition to freedom from calibration and flow, they are also insensitive to air bubbles thanks to their 45° membrane. You therefore do not need any additional installation equipment. The robust workmanship of the sensor allows it to be used even up to an overpressure of 10 bar. The special membrane is characterized by unique stability and thus guarantees stable measured values.





Models	FDO® 700 IQ	FDO® 700 IQ SW*	FDO® 701 IQ	FDO® 701 IQ SW*
item number	201650	201652	201660	201653
Measuring principle	optically			
Measuring ranges (25 °C)				
O ₂ concentration	0 ... 20.00 mg/l (0 ... 20.00 ppm)			
O ₂ saturation	0 ... 200.0%			
resolution				
O ₂ concentration	0.01 mg/l (0.01 ppm)			
O ₂ saturation	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 ₉₀ : < 150 s t ₉₅ : < 200 s		t ₉₀ : < 60 s t ₉₅ : < 80 s	
Minimum flow	No flow required			
SensCheck	Monitoring membrane function			
Temperature measurement	Integrated NTC, -5 °C ... +60 °C, ± 0.5 °C			
Temp. compensation	-5°C ... +50°C			
Compressive strength	Maximum 10 bar (including sensor connection cable)			
Environmental conditions	-5 °C ... +50 °C -25 °C ... +50 °C		-5 °C ... +40 °C -25 °C ... +40 °C	
Electrical connection	2-core shielded cable with quick release on the sensor			
Electromagnetic compatibility	EN 61326, Emission: Class B, FCC Class A Immunity for essential operation			
Test mark	CE, cETL, ETL			
mechanics	Sensor cap, fixing ring: POM, PVC, silicone, PMMA Housing shaft: V4A stainless steel 1.4571 Protection class IP 68			
Weight (without cable)	Approx. 900g	Approx. 1,500 g	Approx. 900g	Approx. 1,500 g
guarantee	2 years for material defects in accordance with Section 10 General Terms and Conditions			



Units in box: 1