Oxygen Sensor FYA640O2



Applications:
Determination of the conditions of life for fish and microorganisms in waters and fish tanks, biological treatment of municipal and industrial waste water, storage of organic liquids, examinations of drinking water, control of corrosion processes in heating system lines, examination of quality-keeping of beverages.

Technical Data

Measuring ranges:	
Temperature range:	–5.0 … 50 °C
O2 saturation:	0 … 260 % saturation
O2 concentration:	0.0 … 40 mg/l (5 … 40 °C)
Measuring principle:	Clark
Working electrode:	Pt cathode
Reference electrode:	Ag/AgCl counter electrode
Membrane:	PTFE
Response time (t_{90}%):	approx. 10–15 s
Zero current at 0 % saturation:	< 5 nA
Meas. current at 100 % saturation:	approx. 700 nA
Accuracy, oxygen measurement:	< ± 1 % of measured value
Velocity in blower stream:	approx. 10 cm/s
Storage temperature:	–10 … 50 °C
Insertion depth:	40 mm
Filling volume (electrolyte):	0.6 ml

Temperature sensor:	NTC type N (10 k at 25 °C)
Accuracy of temp. measurement (at nominal conditions):	–20 … 0 °C: ±0.4 K, 0 … 70 °C: ±0.2 K
Nominal conditions:	25 °C ±3K/1013mbar
Shaft material:	PVC, black
Membrane cap:	replaceable (spare)
Shaft length/shaft diameter:	145mm/12mm
Connecting cable:	1.5 m long with spray-coated ALMEMO® connector
Polarisation voltage:	650 mV
Service life (with one electrolyte filling):	several months
Total service life (durability):	several years

Accessories

	Order no.
Adjustment set consisting of: 25 g sodium sulphite in 20 ml PE bottle for preparation of the blank solution, vessel for adjustment of the saturation level	**ZB9640AS**
25 g sodium sulphite in 20 ml PE bottle	**ZB9640NS**
20 ml filling solution in PE bottle for O2 probe	**ZB9640NL**
Spare membrane cap with protection (2 pieces)	**ZB9640EM**

Type

	Order no.
Oxygen sensor for O2 measurements in liquids incl. connecting cable 1.5 m long with spray-coated ALMEMO® connector	**FYA640O2**

11/2026 • We reserve the right to make technical changes.