

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 sensor:	NTC type N (10k at 25°C)
Temperature range:	-5.0 ... 50°C	Accuracy of temp. measurement (at nominal conditions):	-20 ... 0°C: ±0.4K, 0 ... 70°C: ±0.2K
O2 saturation:	0 ... 260% saturation	Nominal conditions:	25°C ±3K/1013mbar
O2 concentration:	0.0 ... 40mg/l (5 ... 40°C)	Shaft material:	PVC, black
Measuring principle:	Clark	Membrane cap:	replaceable (spare)
Working electrode:	Pt cathode	Shaft length/shaft diameter:	145mm/12mm
Reference electrode:	Ag/AgCl counter electrode	Connecting cable:	1.5m long with spray-coated ALMEMO® connector
Membrane:	PTFE	Polarisation voltage:	650mV
Response time (t ₉₀ %):	approx. 10–15s	Service life	
Zero current at 0% saturation:	< 5nA	(with one electrolyte filling):	several months
Meas. current at 100% saturation:	approx. 700nA	Total service life (durability):	several years
Accuracy, oxygen measurement:	< ± 1% of measured value		
Velocity in blower stream:	approx. 10cm/s		
Storage temperature:	-10 ... 50°C		
Insertion depth:	40mm		
Filling volume (electrolyte):	0.6ml		

Accessories

Adjustment set consisting of:

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25g sodium sulphite in 20ml PE bottle for preparation of the null solution, vessel for adjustment of the saturation level	ZB 9640 AS
25g sodium sulphite in 20ml PE bottle	ZB 9640 NS
20ml filling solution in PE bottle for O2 probe	ZB 9640 NL
Spare membrane cap with protection (2 pieces)	ZB9640EM

Type

Oxygen sensor for O₂ measurements in liquids incl. connecting cable 1.5m long with spray-coated ALMEMO® connector

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