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 qualitykeeping of beverages.

Technical Data

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

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

Accessories	Order no.
Adjustment set consisting of:	
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

Туре	Order no.
Oxygen sensor for O_2 measurements in liquids incl. connecting cable 1.5m long with spray-coated ALMEMO [®] connector	FYA640O2