

WATER ANALYSIS

Oxygen Sensor Type FYA64002



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.

Accessories:

Adjustment set consisting of: 25g sodium sulphite in 20ml PE bottle for preparation of the null solution, vessel for adjustment of the saturation level	Order No. ZB 9640 AS
25g sodium sulphite in 20ml PE bottle	Order No. ZB 9640 NS
20ml filling solution in PE bottle for O ₂ probe	Order No. ZB 9640 NL
Spare membrane cap with protection (2 pieces)	Order No. ZB 9640 EM

Type:

Oxygen sensor for O₂ measurements
in liquids incl. connecting cable
1.5m long with ALMEMO® connector **Ord. No. FYA64002**

Technical Data:

Measuring ranges:	
Temperature range:	-5.0 ... 50°C
O ₂ saturation:	0 ... 260% saturation
O ₂ concentration:	0.0 ... 40mg/l (5 ... 40°C)
Measuring principle:	Clark
Working electrode:	Pt cathode
Reference electrode:	Ag/AgCl counter electrode
Membrane:	Teflon
Response time (t _{90%}):	approx. 10-15s
Zero current at 0% saturation:	< 5nA
Meas. current at 100% saturation:	approx. 700nA
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
Temperature sensor:	NTC type N (10k at 25°C)
Accuracy of temp. measurement (at nominal conditions):	-20 ... 0°C: ±0.4°C, 0 ... 70°C: ±0.1°C
Nominal conditions:	25°C ±3°C/1013mbar
Shaft material:	PVC, black
Membrane cap:	replaceable (spare)
Shaft length/shaft diameter:	145mm/12mm
Connecting cable:	1.5m long with ALMEMO® connector
Polarisation voltage:	650mV
Service life (with one electrolyte filling):	several months
Total service life (durability):	several years