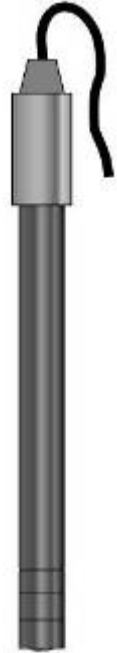


Dissolved Oxygen measuring cell, Ø12 mm, Pb/Ag electrodes

Cells for the measure of Oxygen designed for laboratory applications, PVC (optionally PVDF) body, Ø12 mm, 120 mm length. Series 332B cells are membrane amperometric sensors including two electrodes immersed into an electrolyte solution and separated from the sample by a PTFE membrane permeable to gaseous oxygen. These cells have been specifically designed for laboratory applications, they can however be installed into Mod.SI0A, SI0B, SI0G and SI0H immersion fittings and into Mod.D0A, D0C and D0D through flow cells; they can also be installed in closed pipelines using the Mod.SI16 sensor fitting. These cells can be therefore used not only in laboratory but also in standard dissolved oxygen measurements where operating conditions are not too hard (e.g. in drinking water plants).



Advantages

- Standard dimensions, Ø 12 mm, L.120 mm
- Amperometric membrane cell
- Integral temperature sensor
- Measuring range: 0 to 20 ppm
- Operating temperature up to 50 °C



MEMBRANE

Operating principle and realization

Series 332B cells are classic Clark cells, with silver working electrode and lead counter electrode. These cells have PVDF body, Ø 12mm L.120mm. The two electrodes are installed in the lower tip, immersed in the electrolyte solution and separated from the sample by a PTFE membrane permeable to oxygen gas. The cell includes a temperature sensor for measure thermo compensation and temperature indication. These cells are available with integral cable, maximum cable length is always 15 m.

Series 332B cells are available with the options listed in the Order Code Breakdown.

Installation, Maintenance and Calibration

Minimum sample flow rate required under the membrane is 0,5 cm/sec: the sample has therefore to be stirred in laboratory measurements, while in on-line applications the site of installation must be chosen accordingly. Calibration of 332B dissolved oxygen measuring cell and connected electronic can be performed leaving the cell in air. In this type of cell no zero calibration is required because of its good stability. Zero point can always be checked just immersing the cell in a sodium bisulphite solution (approx.1 g/L). The only required maintenance is the check of the calibration to be performed once every one or two months, after cleaning the membrane.

Technical Specifications

Cell body:.....	PVC or PVDF
Electrodes:.....	Silver working electrode, lead counter electrode
Measuring range:.....	0÷20 ppm O ₂
Accuracy:.....	0.25 % f.s.
Response time:.....	20" to reach 90 % of full value
Operating temperature limits:.....	5÷50 °C
Operating pressure limits:.....	atmospheric
Minimum sample flow rate under the membrane:.....	0,5 cm/sec
Dimensions :	Ø 12mm, length. 120 mm
Cable:.....	integral, std 1 m, max.15 m
Weight:.....	100 g w/o cable

332BxxxxxA

Order code breakdown

	332	x	x	x	x	x	x	x
Cells for the measure of oxygen	332							
Type of cell								
Cell, Ø 12mm, L.120 mm Ag/Pb electrodes (332/Pb)		B						
Temperature compensation								
Reserved			0					
Sensor Pt100			1					
Sensor TC100			2					
Sensor Pt1000			4					
Special execution			9					
Body material								
Reserved				A				
PVC (standard)				B				
PVDF (optional)				C				
Special execution				Z				
PTFE Membrane thickness								
Reserved					0			
10 µm PTFE membrane					1			
25 µm PTFE membrane					2			
Special execution					9			
Cable and connector								
Reserved							Y	
Integral shielded cable, 1 m (standard)							A	
Integral shielded cable, 3 m							B	
Integral shielded cable, 5 m							C	
Integral shielded cable, 10 m							D	
Integral shielded cable, 15 m							E	
Integral shielded cable, 3 m and PG 13.5 connector							F	
Integral shielded cable, 5 m and PG 13.5 connector							G	
Integral shielded cable, 10 m and PG 13.5 connector							H	
Integral shielded cable, 15 m and PG 13.5 connector							L	
Integral shielded cable, 3 m and SS head c/w flange							M	
Integral shielded cable, 5 m and SS head c/w flange							Q	
Integral shielded cable, 10 m and SS head c/w flange							R	
Integral shielded cable, 15 m and SS head c/w flange							S	
Special execution							Z	
Connector on instrument side								
No connector								0
Conn.CN/2109.1 c/w linearizing circuit for Mod.HD2109.1								3
7 poles connector for bench top DO meter Mod.360, CN/13								4
Special execution								9
Cable color code revision (factory selected code)								
Revision A CV/7025-SCH								A



**332B CELL
OUTLINE DIMENSIONS**

332BxxxxxA

Optional accessories

Electrolyte solution

Electrolyte solution for 332B, 100ml bottle Mod.E/332PB

Maintenance Kit for 332B, including

10 PVDF cartridges c/w PTFE membr.10 µm + 20 ml electrol.bottle..... Mod.332MPB10

10 PVDF cartridges c/w PTFE membr.25 µm + 20 ml electrol. bottle..... Mod.332MPB25

Powder for zero point check

Sodium sulphite, powder, for zero point control, 10 g powder bag Mod.T/332

Sensor fittings for 332B

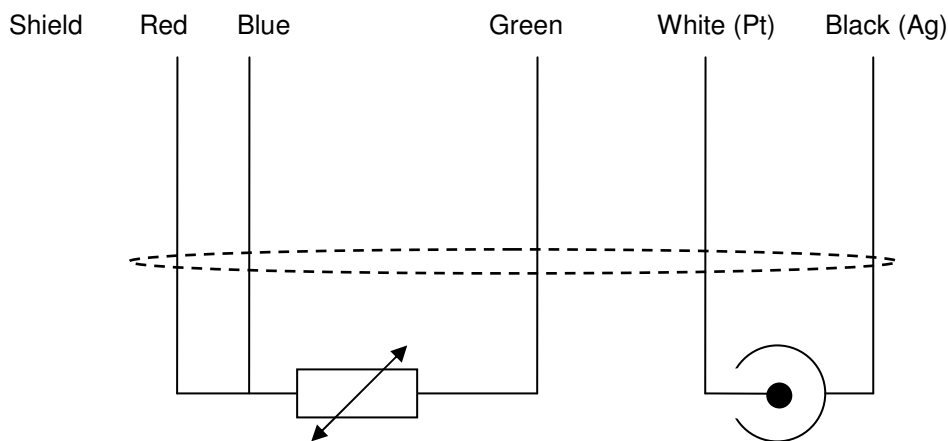
Sensor fitting for the installation of 332B cell into closed pipelines:..... Mod.SI16

Immersion fitting, Ø 32 mm, for direct installation of 332B cell into channels and basins:Mod.SI0A

Immersion fitting, Ø 32 mm, with chemical cleaning system, for direct installation of 332B cell into channels and basins:Mod.SI0B

WIRING, 332B CELL CABLE COLOR CODE REV.A

Wiring diagram, DO cell, 3 wires Pt100



Wiring diagram, DO cell, 4 wires Pt100

