

Dissolved Oxygen Analyser

Polymetron 9582 (DOC024.52.93067)



Dissolved oxygen analyzer designed for measurement in high purity water with automatic temperature compensation, e.g. in boiler water and condensate.

The Polymetron 9582 Dissolved Oxygen measuring loop consists of a Polymetron 9500 controller, a Polymetron amperometric sensor and cable, a Stainless Steel flow-through chamber and is designed to continuously monitor the concentration of dissolved oxygen in a sample stream.

Technical Data	
Subject to change without notice	
	9582 analyzer
Designation	Measuring system for online monitoring of DO in high purity water and condensates
Measuring principle	amperometric (Clark Cell)
Measuring range	0–2 ppm
Sensitivity	< 0.5 ppb
Response time T90	< 30 sec For step change 1–40 ppb
Sample temperature	–20–60 °C (–4–120 °F)
Sample pressure	Atmospheric pressure
Resolution	0.01 mg/l, 0.01 ppm, 0.01 % saturation
Sample flow rate	4–10 liters/hour
Relative humidity	0–90%
Altitude	< 2000 meters
Power requirements	AC powered controller: 100–240 VAC ±10%, 50/60 Hz 24 VDC powered controller: 24 VDC–15%, + 20%
European Standards	EN 61326-1: 2006; EN 61010-1: 2010
ETL approved	File 65454
Dimensions	144 x 144 x 181 mm (W x H x D)
Weight	1.7 kg (3.75 lb)
Controller enclosure	NEMA 4X/IP66 metal enclosure with a corrosion-resistant finish
Wetted Material	
Electrodes	Gold cathode, Silver anode
O-Ring	Viton
Membrane	PFA (Perfluoroalkoxy)
Sensor head	Noryl, Viton
Sensor body	Noryl
Sensor with optional immersion	SS 316L
Controller compatibility	Polymetron 9500

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Technical Data	
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Polymetron 9500 Controller	
Component description	Microprocessor-controlled and menu-driven controller that operates the sensor and displays measured values.
Operating temperature	-20 to 60 °C (-4 to 140 °F); 95% relative humidity, non-condensing with sensor load <7 W; -20 to 50 °C (-4 to 104 °F) with sensor load <28 W
Storage temperature	-20 to 70 °C (-4 to 158 °F); 95% relative humidity, non-condensing
Enclosure	NEMA 4X/IP66 metal enclosure with a corrosion-resistant finish
European standards	EN 61326-1: 2006; EN 61010-1:2010
ETL approved	File 65454
Power requirements	AC powered controller: 100-240 VAC $\pm$ 10%, 50/60 Hz; Power 50 VA with 7 W sensor/network module load, 100 VA with 28 W sensor/network module load (optional Modbus RS232/RS485 or Profibus DPV1 network connection). 24 VDC powered controller: 24 VDC—15%, + 20%; Power 15 W with 7 W sensor/network module load, 40 W with 28 W sensor/network module load (optional MODBUS RS232/RS485 or Profibus DPV1 network connection).
Altitude requirements	Standard 2000 m (6562 ft) ASL (Above Sea Level)
Pollution degree/install. Cat.	Pollution Degree 2; Installation Category II
Outputs	Two analog (0-20 mA or 4-20 mA) outputs. Each analog output can be set to 0-20 mA or 4-20 mA, and can be assigned to represent a measured parameter such as pH, temperature, flow or calculated values. Optional 3 additional analog outputs. Secure Digital Memory card for use in data logging and software updates.
Relays	Four SPDT, user-configured contacts, rated 5A 250 VAC(resistive). Contacts are rated 250VAC 5 Amp resistive maximum for the DC powered controller. Relays are designed for connection to AC Mains circuits (i.e., whenever the controller is operated with 115-240 VAC power) or DC circuits (i.e., whenever the controller is operated with 24 VDC power).
Dimensions	1/2 DIN—144 x 144 x 180.9 mm (5.7 x 5.7 x 7.12 in.)
Weight	1.7 kg
Digital communication	Optional Modbus RS485/RS232 or Profibus DPV1 network connection for data transmission
Data logging	Secure Digital Card or special RS232 cable connector for data logging and performing software updates
Warranty	2 years

Configuration of Polymetron 9582

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Panel options													
Oxygen Scavengers Panel													
Country code													
language independent													
Power Supply (Strain Relief Provided)													
without power cord												0	
100-240 VAC, with EU-power cord												2	
24 VDC												7	
Communications Output													
Standard (two 4-20 mA outputs)												0	
MODBUS 232 and 485												1	
PROFIBUS DP (includes sculpted barrier)												3	
5 x I/O outputs - no BUS connection												9	
Brand Labeling													
9500 Polymetron controller EU model													