



## Hach LDO Model 2, DO Probe with Luminescent Dissolved Oxygen Technology, for Sea Water Applications

**Product #:** 9020000-SW

**ZAR Price:** Contact Hach

### Accurate process monitoring of dissolved oxygen in water for precise aeration control

Hach's next generation DO Probe, the LDO Model 2 (Luminescent Dissolved Oxygen), accurately measures dissolved oxygen levels in water by utilizing luminescent dissolved oxygen technology within the O<sub>2</sub> sensor (oxygen sensor) cap ensuring high levels of accuracy. The Hach LDO probe requires no calibration and can be used right out of the box. Using this DO probe to monitor dissolved oxygen levels in your water applications saves time and money through minimum maintenance (no electrolyte solution) and overall reduction in aeration blower energy usage.

An improved body design optimizes the probe's temperature sensor to provide an even faster response time to process variability as well. The probe comes with a three year warranty, and the sensor cap has a two year warranty.

This instrument connects to Claros, Hach's innovative Water Intelligence System, enabling you to seamlessly connect and manage instruments, data, and process – anywhere, anytime. The result is greater confidence in your data and improved efficiency in your operations. To unlock the full potential of Claros, insist on Claros Enabled instruments.

#### No Calibration Required

The Hach LDO probe uses luminescent dissolved oxygen technology. Traditional DO probes require DO sensor calibration, which increase maintenance requirements.

#### No Membranes to Replace

There is virtually no maintenance with Hach's breakthrough luminescent technology, as there are no membranes to replace, no electrolyte solution to replenish, and no anode or cathode to clean.

#### No Missed Cleaning Cycles

The Hach LDO probe is equipped with Prognosys, a predictive diagnostic system, that allows you to be proactive in your maintenance by alerting you to upcoming instrument issues. Know with confidence whether changes in your dissolved oxygen level measurements are due to changes in your instrument or your water. To make sure routine cleaning cycles are never missed, the probe offers operators customizable diagnostic alert indicators, ensuring the probe can operate at its maximum performance level.

Customizable service indicators trigger a service message so that a cleaning cycle is never missed.

#### No Drift

Cutting-edge 3D calibration procedure is conducted prior to shipping, the DO probe will not drift and is more accurate than ever before.

#### No Complications

Our newest DO probe has a robust design with a smaller footprint allows for easier handling with enhanced durability.

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### Specifications

Accuracy:	± 0.05 ppm Below 5 ppm
Accuracy 2:	± 0.1 ppm Above 5 ppm
Accuracy 3:	Temperature: ± 0.2 °C
Body material:	Noryl
Cable Length:	10 m (33 ft)

Calibration Method:	All Probes are factory calibrated and ready to use
	Air Calibration: one point, 100% water saturated air
	Sample Calibration: comparison to standard instrument, or comparison to Winkler Titration method
Diameter:	48.25 mm
Dimensions (D x L) :	48.25 mm x 254 mm
Flow Rate:	None required
Interferences:	No Interferences from the following: H <sub>2</sub> S, pH, K <sup>+</sup> , Na <sup>+</sup> , Mg <sup>2+</sup> , Ca <sup>2+</sup> , NH <sub>4</sub> <sup>+</sup> , Al <sup>3+</sup> , Pb <sup>2+</sup> , Cd <sup>2+</sup> , Zn <sup>2+</sup> , Cr (total), Fe <sup>2+</sup> , Fe <sup>3+</sup> , Mn <sup>2+</sup> , Cu <sup>2+</sup> , Ni <sup>2+</sup> , Co <sup>2+</sup> , CN <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , S <sup>2-</sup> , PO <sub>4</sub> <sup>3-</sup> , Cl <sup>-</sup> , anion active surfactants, crude oils, Cl <sub>2</sub> < 4 ppm
Length:	254 mm
Measuring range:	0 - 200 %
Operating temperature range:	0 - 50 °C
Options:	Sea Water Application
Pressure Range:	3.5 bar
Repeatability:	± 0.1 ppm (mg/L)
Resolution:	0.01 ppm (mg/L)
	0.1% saturation
Response time:	T <sub>90</sub> < 40 s
	T <sub>95</sub> < 60 s
Sensor Cable:	10 m
Sensor Immersion Depth:	Down to 34 m (112 ft.), 345 kPa (50 psi), maximum; accuracy may not be maintained at this depth
Storage conditions:	-20 °C to 70 °C
Transmission Distance:	100 m (328 ft.) maximum
Transmission Distance 2:	1000 m (3280 ft.) maximum when used with a termination box
Warranty:	36 months
Weight:	1 kg (2.2 lbs), probe only
What's included?:	Includes: LDO probe, calibration bags, and manual

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## Required Accessories

- SC1000 Display Module, Multi-Parameter Universal Controller (Item LXV402.99.00002)
- SC1000 Probe Module, 6 Sensor Connectors, Prognosys, Modbus 485, 100-240 VAC with Conduits (Item LXV400.99.1H082)
- SC1000 Probe Module, 8 Sensor Connectors, Prognosys, 100-240 VAC with Conduits (Item LXV400.99.1G092)
- SC1500 Controller, 6 Sensor Connectors, 8Ma Out, 110V/Cond Ext MOD (Item LXV446.99.103N1)
- SC1500 Controller, 6 Sensor Connectors, 8Ma Out, 110V/Cond 4 Relay/C Ext MOD (Item LXV446.99.1R3S1)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, US plug (Item LXV525.99E11551)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, without power cord (Item LXV525.99A11551)
- SC4500 Controller, Prognosys, 5x mA Output, 1 digital Sensor, 100-240 VAC, without power cord (Item LXV525.99A11501)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 24 VDC, without plug (Item LXV525.99Z11551)