



Hach LDO sc Model 2, DO Probe with Luminescent Dissolved Oxygen Technology

Product #: 9020000
ZAR Price: Contact Hach
Ships within 1 week

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

The Luminescent Dissolved Oxygen (LDO) sc, Model 2 accurately measures dissolved oxygen levels in water.

This DO probe has a robust design with a small footprint which allows for easier handling and enhanced durability from the LDO 1. Using this probe will save you time and money through overall reduction in your aeration blower energy usage.

This Hach LDO probe comes ready to use right out of the box, with no calibration required for life of the sensor cap.

The probe comes with a 3-year warranty, and the sensor cap has a 2-year warranty and is compatible with all Hach digital SC controllers.

Luminescent Dissolved Oxygen Technology

The LDO sc Model 2 uses luminescent dissolved oxygen technology within the O₂ sensor (oxygen sensor) cap ensuring high levels of accuracy.

Virtually no Maintenance Required

As this is an optical probe, there is virtually no maintenance required — as there are no membranes to replace, no electrolyte solution to replenish, and no anodes or cathodes to clean. Compare this with traditional DO probes which require sensor calibration (increasing maintenance).

Just replace the cap every two years, and customizable service trigger indicators ensure you'll never miss a cleaning cycle or cap replacement.

Claros Enabled

This instrument connects to Claros, Hach's innovative Water Intelligence System, enabling you to seamlessly connect and manage instruments, data, and process – anywhere, anytime.

No Calibration Required

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

No Membranes to Replace

There is virtually no maintenance with Hach's breakthrough luminescent technology. 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 sc 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 Technology

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

No Complications

Our newest Model 2 DO probe has a robust design with a smaller footprint allows for easier handling with enhanced durability.

Specifications

Accuracy:	± 0.05 ppm Below 5 ppm
Accuracy 2:	± 0.1 ppm Above 5 ppm
Accuracy 3:	Temperature: ± 0.2 °C
Body material:	Stainless steel
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
Communication:	Modbus via SC controller
Diameter:	48.25 mm
Dimensions (D x L) :	48.25 mm x 254 mm
Flow Rate:	None required
Hazardous Location Ratings:	ETL listed (cETLus marked) to Canadian and US General Safety and Hazardous (Class I, Div. 2) Locations
Interferences:	No Interferences from the following: H ₂ S, pH, K ⁺ , Na ⁺ , Mg ²⁺ , Ca ²⁺ , NH ₄ ⁺ , Al ³⁺ , Pb ²⁺ , Cd ²⁺ , Zn ²⁺ , Cr (total), Fe ²⁺ , Fe ³⁺ , Mn ²⁺ , Cu ²⁺ , Ni ²⁺ , Co ²⁺ , CN ⁻ , NO ₃ ⁻ , SO ₄ ²⁻ , S ²⁻ , PO ₄ ³⁻ , Cl ⁻ , anion active surfactants, crude oils, Cl ₂ < 4 ppm
Length:	254 mm
Measuring range:	0 - 20.00 ppm
Operating temperature range:	0 - 50 °C
Options:	None
Pressure Range:	Max 3.5 bar
Repeatability:	± 0.1 ppm (mg/L)
Resolution:	0.01 ppm (mg/L)
	0.1% saturation
Response time:	T ₉₀ < 40 s
	T ₉₅ < 60 s
Sensor Cable:	10 m (31 ft.) terminated with quick-disconnect plug
Sensor Immersion Depth:	Down to 34 m (112 ft.), 345 kPa (50 psi), maximum; accuracy may not be maintained at this depth
Sensor Thread:	Outer thread
Storage conditions:	-20 °C to 70 °C
Transmission Distance:	100 m (328 ft.) maximum

Transmission Distance 2:	400 m (1312 ft.) maximum when used with a termination box
Warranty:	36 months
Weight:	1 kg (2.2 lbs), probe only
Wetted Materials:	Sensor Cap: Acrylic; Probe Body: CPVC, Polyurethane, FKM/FPM, Noryl, 316 Stainless Steel
What's included?:	Includes: sensor with cable, 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)