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LDO sc Process Sensor for Dissolved Oxygen

LDO sc - The latest LDO Generation The best in dissolved oxygen measurements

Immersion or flow probe with optical luminescence measurement method for the determination of dissolved oxygen. Calibration-free and drift-free. Measuring range: 0–20 mg/L O₂ (dissolved), 0–50 °C.

Extremely reliable: 3 year warranty on probe

The optimised temperature sensor and the new 3D factory calibration make O₂ measurement even more accurate

No electrolyte or membrane changes necessary

Remote functions for simple and convenient data transmission via the Internet and SMS

Constantly provides information on the current sensor status via the PROGNOSYS early warning system

Benefits

No electrolyte or membrane changes due to the optical measurement method. The new LDO probe ensures there is only a minimal amount of maintenance. The luminescence method means the measurement is unaffected by any type of interference.

Years of practical experience have shown that this method completely overcomes the disadvantages of traditional electrochemical O₂ measurement methods.

The oxygen probe has a 3 year warranty, whilst the sensor cap has a 2 year warranty. This provides a longer service life and increased operational reliability.

New features include the optimised temperature sensor and 3D sensor calibration, which provide accurate plant control, for maximum water quality and minimal energy costs!

In combination with the SC 1000 Controller, working with the LDO probe is now simpler and more reliable. Remote functions enable convenient data transmission and remote diagnostics. The PROGNOSYS early warning system constantly provides information on the current sensor status and reminders about inspections.

Specifications

Dimensions (D x L)	48.25mm x 254mm
Response time	$T_{90} < 40 \text{ s}$ $T_{95} < 60 \text{ s}$
Flow rate	No flow rate required
Resolution	0.01 mg/L (ppm) O ₂ /0.1% saturation
Operating temperature	0 to 50 °C
Pressure range	max. 3.5 bar
Warranty	Probe body: 3 years, sensor cap: 2 years
Weight	1.0 kg
Interferences	No interferences by: 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 ⁻ anionic surfactants, crude oils or Cl ₂ < 4ppm
Cable length	10 m
Storage temperature	-20 to 70 °C (95% relative humidity)
Materials	Sensor cap: acrylic Probe body: CPVC, polyurethane, viton, noryl, stainless steel 1.4404 (AISI 316L)
Measuring range	0 to 20.00 mg/L (ppm) DO 0 to 200% saturation
Accuracy	Below 5 mg/L O ₂ ± 0.1 mg/L Above 5 mg/L O ₂ ± 0.2 mg/L
Enclosure rating	IP 68
Sensor connector	1 " NPT external thread
Temperature accuracy	± 0.2°C
Repeatability	± 0.1 mg/L
Accessories	Sensor cap (9021150)
Product description	LDO sc online sensor for dissolved oxygen
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