LUM02C ON-LINE DO CONTROLLER

Luminescence cell mounted on rugged waterproof dissolved oxygen monitoring in biological wastewater treatment plants. Direct measurement without interference, no recalibration, membranes replacement and electrolyte electrochemical and wear. Fitting directly into the oxidation tank. Not sensitive to pH changes and pollutants. Only once a year maintenance required. Sensitive cap replaced on field by unqualified person without tools.

Applications:

- Continuous monitoring of the level of dissolved oxygen
- Baths of oxidation, nitrification, denitrification,
- Aerobic Digestion Anaerobic
- Adjustment of devices designed to oxygen dosage

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DESCRIPTION

A chemiluminescent semipermeable polymer, that covers the sensor head, reflects the radiation beam from a photodiode to a detector. The time elapsed between the emission of energy and the excitement of the polimer's molecules is inversely proportional to the concentration of oxygen. The probe is connected to a control unit for the management, visualization and recording of data that can be downloaded and viewed on a PC using dedicated software. The system is equipped with 2 analog outputs 0/4 ... 20 mA, RS232 output and can be connected to the fieldbus.

TECHNICAL SPECIFICATIONS

Material probe:	Noryl and AISI316
Sensor material:	Polybutylene methacrylate
Thread diameter:	coupling pipe for installation 1 7/8 " ID
Working temperature:	0 +50 ° C
Compensation:	NTC 30K Ohm, automatic
Sample flow:	not required
Measuring range:	0 20 mg / I , 200 % sat
Resolution:	0.01 mg / I to 0.01 % saturation
Repeatability:	0.05 ppm
Accuracy:	< 1 ppm + / -0.1 ppm; > 1 + / -0.2 ppm
Sensitivity:	+ / - 0.05%
Response time at 20 ° C:	for 90 % of reading <30 s , for 95% < 90 s
Sensor cable:	10 m plug with integrated seal. For longer distances, use branching unit and additional cable
Maximum distance:	electronic unit 300 mt
Interfering	no interfering between the following:H2S, pH, K ⁺¹ , Na ⁺¹ , Mg ⁺² , Ca ⁺² , NH4 ⁺¹ , Al ⁺³ , Pb ⁺² , Cd ⁺² , Zn ⁺² ,
	Cr (tot), Fe ⁺² , Fe ⁺³ , Mn ⁺² , Cu ⁺² , Mi ⁺² , Co ⁺² , CN ⁺ , NO3 ⁺¹ , SO4 ⁺² , S ⁺² , PO4 ⁺³ , Cl ⁺¹ , Surfactants
-	anionic, crude oil, Cl2
Size:	290x60; 1.4 kg.
Warranty probe:	3 years
Sensor Warranty:	1 year
Electronic unit	
Display:	LCD matrix, 128x64 pixels, backlit
Inputs:	2 sensor inputs
Analog outputs:	2 x 0/ 4 20mA, selectable
Relay:	3 x switch 115/230VAC , 5A ; selectable
Structure:	Aluminum IP66, wall mounting pipe or control panel
Communication:	RS-232, Modbus RS485 , RS485, Profibus DP



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