Cerlic

O2X

Submersible Dissolved Oxygen Sensor

Easy to use
- Mounted in adjustable telscopic armature and flexible handrail mounting kit
- 6 months between calibrations

Low maintenace
- Automatic cleaning system with built-in flushing nozzles
- No moving parts
- Field replaceable O2 cartridege

Wide measuring range
- 0 - 20 mg O_2/l

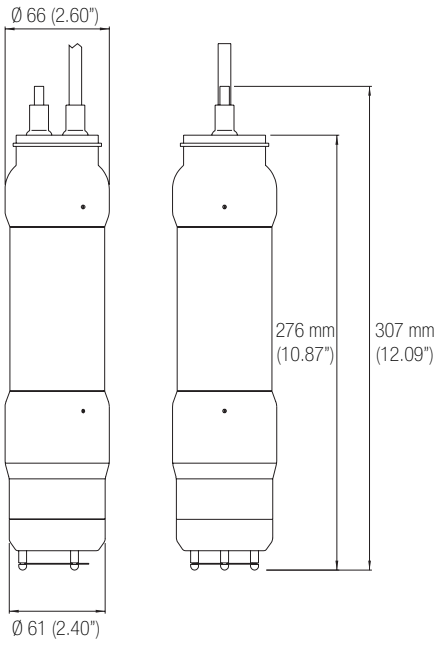
Electrode with good stability
- Clark type with FEP membrane
- Built-in temperature compensation provides stability

Dissolved Oxygen Sensor O2X for continous measurement of dissolved oxygen in SBR systems, aeration basins and final effluent. The O2X is essential in saving energy associated with running blowers in aeration basins. The measurement of dissolved oxygen also assists in controlling nitrification/denitrification and leads to better process control.
The oxygen electrode provides stable and reliable readings.

The special, patented design of the electrode ensures that the air bubble will not touch the silver anode when in operation. This prevents corroding of the electrode and ultimately contributes to its long life. In addition, an automatic cleaning feature with built-in flushing nozzles and no moving parts guarantees accurate measurements and little maintenance.

Technical Specifications

Material	**316SS (2343)**	The sensor is manufactured in stainless steel which limits corrosion. The head of the sensor is designed to achieve the highest self-cleaning effect.
Weight	**2.1 kg (4.6 lbs)**	
Connection	**10 m (33 ft)**	5-pin M12 contact. The cable is made of Hytrel and is highly resistant to aggressive materials and fluids.
Enclosure	**IP 68 (NEMA 6)**	
Process temp.	**0 - +50°C (32 - 122°F)**	
Interface	**RS 485** **Fieldbus (option)**	All data is stored in the intelligent sensor, this means that it can be pre-calibrated in the factory in Stockholm.
Measuring principle	**Clark electrode**	Replaceable cartridge type, active material gold/silver (cathode/anode). Membrane in FEP Teflon, 0,025 mm (optional 0,120 mm).
Measuring range	**0 - 20 mg O_2/l (ppm)**	To maintain the accuracy/stable signal, a calibration is recommended (6 months period).
Measurement accuracy	**Linearity**	+/- 1 % FS
Mounting	**In liquid**	Immersion of sensor in liquid, see accessories for alternatives.
Cleaning	**Air or water**	Option. Flush pressure max 6 bar (87 psig). For air 2 bar (29 psig) is usually sufficient. ¼" pvc hose, 10 m (33 ft).
Accessories		Telescopic rod 4 m incl holder. Flexible mounting bracket for diameter 32 - 50 mm or square 28 - 42 mm. Slide rail assemby Ø 66 mm Aluminum mounting plate. Solenoid valve for flushing. Electrode protection plate.



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BB2 Control Box All our sensors in the X-series can be combined and connected to a Control Box; BB2. The BB2 is equipped with the latest in communication protocols for compatibility with a wide array of automation systems. The control box comes with two 4 - 20 mA outputs as standard. It can support up to four sensors for 4 - 20 mA or Profibus DP output signals. Relay outputs in the BB2 are used for high and low alarms or to provide a pulse for automatic cleaning for sensors with that function. Further information can be found in our leaflet for BB2.

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