

Single channel controller for Dissolved Oxygen, Temperature

Fluorescence Method Dissolved Oxygen Analyzer is based on the principle of fluorescence quenching, blue light irradiates to the fluorescent material to make the fluorescent material excite red light, because the oxygen molecules can take away the energy (quenching reaction), the time and intensity of red light and the concentration of oxygen molecules are inversely proportional. By measuring, the phase difference is excited between the red light and the reference light, then to calculate the concentration of oxygen molecules by corresponding to the internal calibration value. By adopting innovative new fluorescent technology, no membrane and electrolyte is needed, almost no maintenance, excellent performance, easy to operate, no oxygen consumed, can be applied to any occasion, including those low water cycle.



Applications:



Features

- Optical principle: no need to replace the membrane and electrolyte, no flow requirements
- No signal drift, no calibration required
- Using ARM system, more stable and reliable
- Lattice display, Chinese and English menu
- 2 routes of 4-20mA current/ RS485 output
- Stainless steel electrodes, more rugged and reliable
- Air cleaning device is optional

Technical Data

Measuring parameter

Measuring range	0 - 20.00ppm / 0 - 200%, 0 - 60 °C
Resolution	0.01ppm / 1%, 0.1 °C
Accuracy	±0.1ppm or ±1%

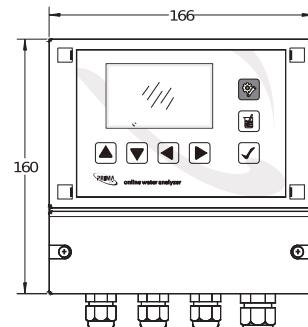
Input

Measuring sensor	innoSens 450 optical DO sensor
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Output

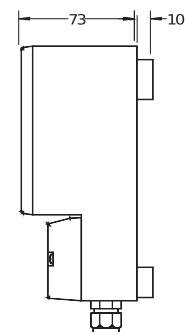
Analog Output 1	4-20 mA isolated current output for Dissolved Oxygen, it can be made to represent any segment of the measuring scale
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Analog Output 2	4-20 mA isolated current output for TEMP., it can be made to represent any segment of the measuring scale Load: Max 600Ω
Relay 1&2 (Alarm)	Operation: ON/OFF Selectable action : High / Low Set Point: High/10.00 ppm; Low/4.00 ppm (adjustable) Hysteresis: 0.01 ppm (adjustable) Relay contacts: 5A/250VAC;5A/30VDC
Relay 3 (Washing Relay)	Wash interval: 0.1~1000hour Wash time: 1~1000s Relay contacts: 5A/250VAC;5A/30VDC
Interface	RS 485 Modbus RTU Baud rate: 9600 bps Data format: 8 bit



General Information

Power supply	90 - 260V AC, 50/60Hz; 24VDC(Optional)
Temperature	Operating temperature: 0 - 60 °C Storage temperature: -20 - 70 °C
Humidity	Max. 90% rH at 40 °C (non-condensing)
LCD display	Dissolved oxygen value, temperature value and relay status
Language	Chinese / English
Passcode	Set mode: 0022 , Calibration mode: 0011
Protection grade	IP65
Dimensions	160 * 166 * 73mm
Installation	Wall Mounting
Weight	1Kg



Sensor Information

Type	innoSens 450
Material	316L
Size	Diameter 33.5 mm, length 197 mm, connection 3/4"BSP
Cable	10 m
Max. Pressure	4 bar
Protection grade	IP68



Order Guide

Order No.	Type	Descriptions
33-6801-30	innoCon 6800D	Dissolved oxygen controller, 90 - 260V AC
33-6801-34	innoCon 6800D	Dissolved oxygen controller, 24V DC
35-0450-00	innoSens 450	Optical dissolved oxygen sensor