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CLX-XT2

Extended Reagent Life Online Residual Chlorine and TRO Monitor

The HF scientific CLX-XT2 Extended Reagent Life Online Chlorine and TRO Monitor is an economical and low maintenance instrument for shipboard ballast water, potable water or wastewater applications that require continuous monitoring and control of total chlorine or total residual oxidant (TRO) levels. This marine grade monitor allows for up to 90 days of unattended operation. User selectable sample cycle times, 4-20mA and RS-485 with Modbus output that can be used to control feed pumps and user selectable alarms allow complete manual or automatic control of chlorine dosing as well as monitoring of ballast water discharge. The monitor is housed in a strong, coated steel IP56 (except fan IP54) case with easy access to all service functions and reagents.

Features

- **Optimized for high temperature marine applications**
- **Use in areas of high ambient temperatures up to 55°C**
- **Total Chlorine**
Can be used for Total Residual Chlorine and Total Residual Oxidant (TRO) measurements
- **Low operating costs**
Cooling effect can extend reagent life to 3 months (depending on sample cycle times at ambient temperatures up to 50°C)
- **Low maintenance**
Designed for unattended operation up to 90 days (depending on sample cycle times at ambient temperatures up to 50°C)
- **Colorimetric DPD chemistry**
- **Cycle times**
Cycle times can vary between 60 seconds to 10 minutes
- **Alarms**
Two user selectable alarms for sample concentration
- **Ballast water treatment, drinking water, and wastewater**
- **4-20mA and RS-485 with modbus**
- **High range to 15 mg/l (option) ±10% accuracy**

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.



Ordering Information

PART NUMBER	DESCRIPTION
28048	CLX-XT2 Extended Reagent Life Online Chlorine Total Residual Monitor, including operation manual (Reagents must be purchased separately.)

Accessories

PART NUMBER	DESCRIPTION
09950EX	Replacement tubing/cuvette kit
28895	High range option 0-15 mg/l - factory installed
25279	Auto drain - factory installed
28896	60 seconds to 10 minute cycle time

Reagents

PART NUMBER	DESCRIPTION
09991	Total Chlorine Liquid Reagent - 12 Month Supply (based on estimated BWTS operational cycles)
09994	Total Chlorine Dry Reagent - 12 Month Supply (based on estimated BWTS operational cycles)

Specifications

Measurement Range:	0.00 – 10.00 mg/L (PPM) or optional 0.00-15.00 mg/L (PPM)
Cycle Time:	User Selectable: 60 seconds to 10 minutes (600 seconds)
Accuracy:	For 0-10 mg/L Range: $\pm 5\%$ of reading or ± 0.03 mg/L (PPM) whichever is greater for range of 0-6.0 mg/L (PPM) & $\pm 10\%$ of reading from 6.01-10.00 mg/L (PPM) For 0-15 mg/L Range: $\pm 10\%$ of reading or ± 0.03 mg/L (PPM) whichever is greater for entire range
Resolution:	0.01 mg/L (PPM)
Display:	Multi-line liquid crystal backlit display
Alarms:	Two programmable, 120-240VAC 2A Form C Relay
Analog Output:	Powered 4-20mA, 600 Ω drive, isolated
Communications Port:	Bi-directional RS-485 with Modbus
Water Pressure:	Integral pressure regulator 0.34 bar (5.0 PSI) to 10.3 bar (150 PSI)
Flow Rate to Waste:	200 to 400 ml/min
Operating Temperature:	0°C to 55°C (32°F to 131°F)
Wetted Materials:	PVC, Borosilicate Glass, Reslyn (FFKM), Viton® (FKM), Polypropylene, 316 Stainless Steel, Acetal, Noryl®, Silicone, Polycarbonate
Sample Temperature Range:	0°C to 55°C (32°F to 131°F)
Enclosure Material:	Mild Carbon Steel, Powder Coated
Power Supply:	100 to 240VAC, 47-63 Hz, 250VA 100 to 240VAC $\pm 10\%$ for serial numbers 201705625 or greater
Insulation Rating:	Double Insulated, Pollution Degree 2, Overvoltage Category II
Environmental Conditions:	Not recommended for outdoor use. Altitude up to 2000 meters. Up to 95% RH (non-condensing)
Enclosure Rating:	Enclosure certified to IP56, Fan rated IP55
Regulatory Compliance and Certifications:	Tested to IMP MEPC. 175(58) Part 3 UL61010-1 3rd edition: 2012 CAN/CSA-C22.2 No. 61010-1-12: 2012. IEC 61326-1:2013
Shipping Weight:	20.4 kg (45 lbs) Reagents are shipped separately
Shipping Dimensions:	61 cm x 61 cm x 33 cm (24" x 24" x 13")

NORYL is a registered trademark of SABIC Innovative Plastics IP B.V.

Viton is a registered trademark of DuPont Performance Elastomers LLC.

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