Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

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
	CLX-XT2 Extended Reagent Life Online Chlorine
28048	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: ±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, 600Ω 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 ±10% for serial numbers

201705625 or greater

Insulation Rating: Double Insulated, Pollution Degree 2,

Overvoltage Category II

Environmental Not recommended for outdoor use. Altitude up

Conditions: to 2000 meters. Up to 95% RH

(non-condensing)

Enclosure Rating: Enclosure certified to IP56, Fan rated IP55

Regulatory Compliance Tested to IMP MEPC, 175(58) Part 3

and Certifications: 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")

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A WATTS Brand