



MODEL FX-CLv2 AMPEROMETRIC CHLORINE RESIDUAL ANALYZER

Trying to use a membrane covered chlorine sensor in unsuitable water is like trying to fit a square peg in a round hole. No matter how badly you'd like to eliminate buffers, reagents and moving parts, some water sources just won't allow you to do so.

Water with elevated levels of calcium hardness, iron, manganese, hydrogen sulfide or suspended solids will foul the electrodes and clog a chlorine sensor membrane within a week.

The Foxcroft FX-CLv2 amperometric chlorine residual analyzer with self cleaning *bare electrodes* provides trouble free continuous online free or total chlorine residual measurement in virtually any clean water source, and excels in "dirty" water that fouls the membranes of typical chlorine sensors.



The design, proven over 35 years, uses ordinary food grade distilled white vinegar as a pH buffer and cleaning agent.

The full color glass touch screen interface looks and reacts like a smart phone; it's rated for a minimum of 1 million touches on any one point.

The optical No Flow sensor prevents electrode overheating if flow is lost. Motors are turned off during no flow conditions and restart automatically when flow resumes.

Maintenance typically takes only one hour or less per year in clean water installations.

24 VDC brushless mixing and pH buffer feed motors are cooler running and offer enhanced performance over AC motors. The variable speed buffer feed motor allows you to more closely match the pH buffer feed to water samples with high pH and or total alkalinity.

No costly or toxic reagents are required for operation. Our Quick Clamp peristaltic pump feeds food grade ordinary distilled white vinegar to buffer the sample pH and help clean the measuring cell. Pump tubing and pump heads change out in seconds. Total chlorine is measured by adding Potassium Iodide to the buffer solution or fed separately with an optional 2-channel pump.

A bufferless reagentless version Model FX-CLv2-B is available to measure free chlorine only in drinking water samples with a stable pH of 7.0 or lower.

Available pre-plumbed on 1/2" thk. X 12" high x 36" wide PVC mounting panel as shown above with buffer bottle bracket, flow rotometer, carbon filter for accurate zero point calibration, inlet and sample selector valves, grab sample petcock.



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SPECIFICATIONS: FX-CLv2 Amperometric Chlorine Residual Analyzer	
Measurement Type:	Amperometric online Bare Electrode, Free or Total Chlorine Residual
Measuring Ranges:	0 – 1.00 to 0 – 20 (mg/l) ppm; up to 0 – 60 ppm (mg/L) optionally. Field selectable lower than original factory calibration only. Resolution dependent upon initial calibration range specified.
Resolution:	0.01 PPM (mg/L) for all ranges
Accuracy:	+/- 0.25% of full scale
Repeatability:	1% of full scale
Stability:	+/- 1% of full scale per month
Sample Flow Requirements:	Continuous flow, 250 ml/min minimum (includes overflow), 500-1000 ml/min recommended
Sample pH Range:	3.0 to 10.0 pH
Sample Alkalinity:	0.05 to 300 ppm (total)
Sample Turbidity:	Less than 250 NTU
Sample Temperature:	32-120 °F (0-49 °C)
Temperature:	Automatic temperature measurement and display, automatic temperature compensation
pH Buffer Requirement:	5% Food-Grade Distilled White Vinegar (add ACS reagent grade Potassium Iodide for total chlorine) fed by integral peristaltic pump and variable speed DC motor
ELECTRICAL	
Electronics:	Microprocessor based, 24 VDC operating power, RoHs compliant, flash upgradeable
Power Supply:	Switching 100-264 Volts AC, 50/60 Hz. input, 24VDC 2.2A output , RoHs compliant
Power Input:	Fused, IEC 320-C14 connector, SPST switch, 2 meter detachable power cord with IEC 60320 C13 & NEMA 5-15P connectors, RoHs compliant
Power Consumption:	Less than 10 watts
Glass Touch Screen Display:	Resistive 4.3" LCD, LED backlight, 65,356 colors, screen resolution 480 x 272, 1 million touches min.
Sensor Inputs:	(1) Standard, up to (8) sensor inputs available optionally
Signal Output:	4-20 mA DC, 750 Ohm maximum load, (2) standard (Chlorine, Temp), up to (4) optional
Relays:	(3) SPDT Form C relays, rating 1 A @ 24VDC, 0.5A @ 125VAC, dry closure. Up to (8) optionally
Communication:	RS485 serial port – inactive as standard
Alarms:	High & low chlorine, configurable levels and delay. No flow alarm
MECHANICAL	
Motors:	Brushless 24VDC, fixed speed mixer motor, variable speed buffer feed motor, all RoHs compliant
Buffer Solution Mounting:	Wall mount bracket for 1-gallon bottle included
Electronics Enclosure:	Wall mount NEMA 4X, UV resistant fiberglass electronics enclosure
Sample Line:	1/4" ID x 3/8" OD flexible PVC tubing, 3 feet included
Drain Lines:	(2) 5/8" ID x 3/4" OD flexible PVC, two 3-foot pieces included
Overall Dimensions:	12" H x 16" W x 6" Deep approximate, plus mounting tabs, panel 12" H x 36"W x 6" deep
Warranty:	One year from date of factory shipment

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