

# Series FX-CL

## Online Amperometric Residual Analyzers For Chlorine & Alternative Disinfectants



The Foxcroft FX-CL Series of residual analyzers combines flexibility with ease of use and expansion capability to grow with your changing compliance needs.

Systems are available with bare electrodes for dirty water or wastewater applications, or with amperometric membrane covered probes for filtered water applications that have drinking or swimming pool quality water.

The powerful microprocessor based platform can support up to 8 sensor inputs for multi-parameter capability as well as upgrades for enhanced control and communications.

**Model FX-CLv2** direct reading bare electrode free or total chlorine analyzer for wastewater, potable water, or any water source that clogs or fouls membrane covered probes with elevated levels of suspended or dissolved solids, iron, manganese or calcium.

**Model FX-CLF** reagentless with amperometric membrane covered FREE chlorine sensor and no moving parts for filtered clean water.

**Model FX-CLT** reagentless with membrane covered TOTAL chlorine sensor and no moving parts for filtered clean water.

**Model FX-CLD** reagentless with membrane covered CHLORINE DIOXIDE sensor and no moving parts.

**Model FX-CLO** reagentless with membrane covered OZONE sensor and no moving parts for filtered clean water.

**Model FX-CLP** reagentless with membrane covered PERACETIC ACID sensor for food processing or CSO wastewater and no moving parts for filtered clean water.

**Model FX-CLHP** reagentless with membrane covered HYDROGEN PEROXIDE sensor and no moving parts for filtered clean water.

### FX-CL SERIES FEATURES

- Full color resistive 4.3" glass LCD touch screen interface and display simplifies calibration and operation.
- Microprocessor based 24 VDC, RoHs compliant
- No toxic reagents required
- Automatic temperature measurement, compensation, display
- (1) 4-20mA output standard, up to (4) optionally

- Digital RS485 serial port (inactive as standard)
- (3) 1A alarm relay outputs (high / low with fully programmable levels and delay; no flow), up to (8) available.

### *Bare Electrodes for Waste & Drinking Water*



### *Membrane Covered Sensor Systems For Clean, Filtered Water, Free Chlorine, Total Chlorine, Chlorine Dioxide, Ozone, Peracetic Acid, Hydrogen Peroxide*



# Series FX-CL Online Amperometric Residual Analyzers For Chlorine & Alternative Disinfectants



## Series FX-CL Available Models:

- FX-CLv2**, free or total chlorine, microprocessor based, bare electrode, buffered pH correction
- FX-CLv2-B**, free chlorine only, microprocessor based, bare electrode, bufferless, no pH correction
- FX-CLF**, microprocessor based, no moving parts, reagentless 2 or 3 electrode Free chlorine sensor
- FX-CLT**, microprocessor based, no moving parts, reagentless 3 electrode Total chlorine sensor
- FX-CLD**, microprocessor based, no moving parts, reagentless 2-electrode Chlorine Dioxide sensor
- FX-CLO**, microprocessor based, no moving parts, reagentless 2-electrode Ozone sensor
- FX-CLP**, microprocessor based, no moving parts, reagentless 2-electrode Peracetic Acid sensor
- FX-CLHP**, microprocessor based, no moving parts, reagentless 2-electrode Hydrogen Peroxide sensor

Model	FX-CL	FX-CLB	FX-CLF	FX-CLT	FX-CLD	FX-CLO	FX-CLP	FX-CLHP
Chlorine Concentration Range in mg/L (ppm)	0-1 up to 0-20 Or Up to 0-60 *	0-1 up to 0-20 Or Up to 0-60 *	0-0.5 0-2.0 0-5.0 0-10	0-0.5 0-2.0 0-5.0 0-10 0-20	0-2.0 0-5.0 0-10 0-2 WW <b>c</b>	0-0.5 0-2.0 0-5.0 0-10 0-2 WW <b>c</b>	0-500 0-10,000 0-20,000 0-50,000	0-500 0-10,000 0-20,000 0-50,000
Bare Electrode Type	✓	✓						
Amperometric Probe Type			✓	✓	✓	✓	✓	✓
Free chlorine	✓	✓	✓					
Total chlorine	✓ <b>a</b>			✓				
Sample pH range	3-10	4-7.5	4-9 <b>b</b>	4-12	1-11	2-11	1-7	2-11
pH varies > +/- 0.05 pH units	✓				no pH dependence	no pH dependence		
Significant levels of iron, manganese, hydrogen sulfide, calcium, suspended or dissolved solids	✓	✓			✓ <b>c</b>	✓ <b>c</b>		
Waste or Dirty Water	✓				✓	✓	✓	✓
Drinking Water	✓	✓	✓	✓	✓	✓		
Reagentless	✓	✓	✓	✓	✓	✓	✓	✓
Optional Membrane Impervious to Chemicals & Surfactants					✓	✓	✓	✓
Return Sample to Process		✓	✓	✓	✓	✓	✓	✓
pH buffer	yes	no	no	no	no	no	no	no
No Toxic Reagent Discharge	✓	✓	✓	✓	✓	✓	✓	✓
Multi-parameter CL2, pH, Temperature	✓	✓	✓	✓	✓	✓		
Multi-parameter Free & Total Chlorine, pH			✓	✓				
Auto Cleaning	✓	✓						
Control Applications	✓	✓ <b>d</b>	✓ <b>d</b>					
Optional Data Log	✓	✓	✓	✓	✓	✓	✓	✓

FX-CL Series Brochure 1.4

\* **Must specify for ranges over 0-20mg/l, resistor change is required which will affect low residual monitoring**

- a** Total chlorine measured with addition of potassium iodide (KI)
- b** Dependent upon sensor, loss of slope above 7 pH
- c** Only for membranes impervious to chemicals and surfactants in wastewater and dirty water applications
- d.** Control possible with pH compensation using either buffer feed or pH sensor & software compensation

**Foxcroft Equipment & Service Co. Inc. • 2101 Creek Road Glenmoore, PA 19343**

• Phone (610) 942-2888 • Toll Free (800) 874-0590

Fax (610) 942-2769 • [www.foxcroft.com](http://www.foxcroft.com) • E-mail: [sales@foxcroft.com](mailto:sales@foxcroft.com)