



# Bufferless Amperometric Chlorine Residual Analyzer FX-1000p-B



## FEATURES

## DESCRIPTIONS

- True amperometric test method
- Constantly measures free chlorine residuals
- Application: Drinking water
- Simple to calibrate and operate
- Low maintenance design
- Continuous, isolated, 4-20 milliamp output signal, suitable for control or monitoring applications
- Built-in high and low alarm relays
- Field-adjustable range
- High range capabilities to 60 PPM (mg/l) without dilution

The Foxcroft FX-1000p-B Chlorine Analyzer utilizes the most accurate test method to determine chlorine residual levels in process waters, similar to that used in lab environment titrator test methods. This makes it an excellent choice for your chlorine control or monitoring applications. Residual readings are instantaneous and do not rely on "sample and hold" methods. This minimizes any delay in readings for control applications. The continuous 4-20 milliamp output signal can be used to drive chlorine residual, or trigger an autodialer in remote or off-hour situations.

The measuring cell design incorporates several features to ensure accurate readings. Features include; high-grade gold and copper electrodes, fixed sample rates and continuous cell mixing and cleaning. Solid-state analog electronics provide stable, drift free, residual readings and output signals. Electronic isolation eliminates problems from "ground-loop" and ensures operator safety.

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## SPECIFICATIONS

### General

Type of Measurements:	Amperometric, free chlorine
Readout:	Digital, red L.E.D.
Instrument Ranges:	Field adjustable from 0-0.5 PPM (mg/l) to 60.0 PPM (mg/l), factory set 0-5.0 PPM (mg/l)
Resolution:	0.001 PPM (mg/l) for range 0.50 PPM (mg/l), or 0.01 PPM (mg/l) for ranges above 0.5 PPM (mg/l)
Sensitivity:	0.001 PPM (mg/l)
Accuracy:	+/- 2% of full scale
Repeatability:	0.01 PPM (mg/l) or 1% of full scale, whichever is greater
Stability:	+/- 2% of full scale per month
Response Time:	4 second from sample entry to display indication
Full Scale Response:	1.5 to 2.0 minutes
Sample Temperature:	32-120°F (0-49°C)
Sample Flow Requirements:	150-1000 ml/min. (500 ml/min recommended)
Sample Supply:	Where sample flow is interrupted, provisions must be made to keep the electrode wet
Sample Cell Use:	120 ml/min, fixed
Sample Limitations:	Samples containing high concentrations of metal ions or certain corrosion inhibitors may affect analyzer operation
Sample pH:	4.0-8.0 pH - must not vary greater than .05 +/-
Sample Alkalinity:	Less than 125 PPM total (mg/l)
Sample Turbidity:	Less than 250 NTU

### Electrical

Power Requirements:	100-130 VAC, 50/60 Hz. (30 watts); optional 200-240 VAC, 50/60 Hz.
Relays:	Two electromechanical relays (high and low alarms); SPDT (form C) contacts; rated 1A @ 120 VAC
Signal Output:	One isolated 4-20mA (600 ohms max. load)

### Mechanical

Enclosure:	NEMA 4X; fiberglass; surface mount
System Net Weight:	14.8 lbs. (6.7 kg) approximately
Sample Inlet Line:	3/8" od x 1/4'id, clear flexible PVC
Drain Lines	Two 3/4" od x 5/8" id, clear flexible PVC hoses, 3 ft (1m) long each

### Warranty

One year after factory shipment  
Design and specifications subject to change without notice.



PO Box 39  
2101 Creek Road  
Glen Moore, PA  
19343  
(610) 942-2888  
(800) 874-0590  
fax: (610) 942-2769  
www.foxcroft.com

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