



Amperometric Chlorine Residual Analyzer FX-1000p



FEATURES

- True amperometric test method
- Measures free or total chlorine residuals
- Applications include fresh water, wastewater, and food processing
- Simple to calibrate and operate
- Uses inexpensive, non-toxic, food-grade vinegar for pH buffering
- 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 without dilution

DESCRIPTION

The Foxcroft FX-1000p Chlorine Residual 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 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 control systems and/or chart recorders or SCADA systems. The alarm outputs can alert plant operators to an out-of-range chlorine residual, or trigger an autodialer in remote or off-hour situations.

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

The analyzer is designed to be relatively maintenance-free, other than adding vinegar when it runs out. The use of vinegar as a pH buffer is simple, effective, economical, and environmentally friendly. Converting the analyzer to read total chlorine, is as simple as adding Potassium Iodide to the vinegar buffer.

Amperometric Chlorine Residual Analyzer FX-1000p

SPECIFICATIONS

GENERAL

Type of Measurement:
Readout:
Instrument Ranges:
Resolution:

Sensitivity:

Accuracy:

Repeatability:

Stability:

Speed of Response:

Full Scale Response:

Sample Temperature:

Sample Flow Requirements:

Sample Cell Use:

Sample pH:

Sample Alkalinity:

Sample Turbidity:

Buffer Requirements:

Amperometric, free or total chlorine
Digital, red L.E.D.

Field adjustable from 0-0.1 to 0-60 PPM (mg/l), factory set for 0-5 PPM
0.001PPM (mg/l) for ranges to 0.5 PPM, or 0.01 PPM (mg/l) for ranges
above 0.5 PPM

0.001 PPM (mg/l)

+/- 0.25% of full scale

0.004 PPM (mg/l) or 1% of full scale, whichever is greater

+/- 1% of full scale per month

4 seconds from sample entry to display and signal response

1.5 to 2 minutes

32-120° F (0-49° C)

250 ml/min minimum (includes overflow)

120 ml/min., fixed

3.0 to 10.0

0.05 to 300 PPM (total)

Less than 250 NTU

5% Food-Grade Distilled White Vinegar (add Potassium Iodide for
total chlorine residual readings)

ELECTRICAL

Power Requirements:

Alarm Relays:

Signal Output:

Electrical Isolation:

120 Volts AC, 60 hz., 30 watts; 220 VAC, 50 hz optional

2 SPDT, contact rating 1 amp @ 120 Volts AC

Isolated 4-20 milliamps DC, 600 ohms load max.

to 750 volts RMS

MECHANICAL

Instrument Mounting:

Buffer Mounting:

Electronics Enclosure:

Sample Line:

Drain Lines:

Overall Dimensions:

Wall Mount

1 gallon bottle wall bracket, included

NEMA 4X

1/4" x 3/8" flexible PVC tubing, 6 feet included

5/8" x 3/4" flexible PVC tubing, two 3 foot pieces included

12" high x 16" wide x 6" deep (approx. plus mounting tabs)

WARRANTY

One year from date of factory shipment.

Design & specifications subject to change without notice.

