



FX-8500-S Single Loop Controller

The Foxcroft FX-8500-S Single-Loop Controller can provide unattended automation for chlorine residual application or virtually any other variable process. The FX-8500-S provides the vital link between chlorine analyzer and chemical feed device in a "closed-loop" chlorine residual control environment. It allows instantaneous chlorine feed changes based on residual feed back from the chlorine analyzer.

The time compensation reflects the process time interval between chlorine injection and downstream chlorine residual sampling by the residual analyzer. This minimizes overshooting the desired setpoint.

Manual tuning of data parameters is easily done via the built-in keypad and display. Under certain conditions, the Autotune feature can perform self-tuning of data parameters

PRODUCT FEATURES

- Provides accurate set-point control of chlorine residuals or virtually any other variable process.
- Chlorine control applications include fresh water, wastewater, and food processing.
- One 4-20mA input
- Manual or automatic control modes
- 4-20mA output to control chlorine gas pacing valve, metering pump, or other control device.
- 2 line display shows process variable or set-point and output.
- Easy to understand setup prompts and menus (5 different languages)
- Non-volatile memory maintains all preset data.
- Auto/Manual output control.



**FX-8500-S
Single Loop Controller**

SPECIFICATIONS

GENERAL

Configuration:	Via keypad and easily under standable prompts with lockout feature. (English, Spanish, German, French, & Italian)
Control Algorithm:	PID-A/ Proportional Band
Tuning:	Manual or Automatic
Engineering Units:	Programmable (typically set to match chlorine analyzer range)
Process Time Interval:	(reset) can be set from 0.02 to 50 minutes (however, best system operation is usually achieved between 1 and 10 minutes of total process time, from injection of chlorine to sample)
Setpoint:	1 or 2, selectable and limitable within input range of chlorine analyzer
Input Filtering:	0 to 120 seconds plus fuzzy logic filtering mode
Proportional Band:	0.1 to 1000% (determines how "tight" and responsive the control is) Adjustable output control ratio of residual control vs. flow control (factory set for 50/50).
Other Settings:	Many other programmable settings and options too numerous to list, are available on request.
Selector Switch:	Flow Control Only, Residual Control Only, Flow and Residual Control Only

ELECTRICAL

Flow Signal Input:	4-20mADC, 220 Ohms Impedance
Residual Signal Input:	4-20mADC, 220 Ohms Impedance
Control Output Signal:	Powered 4-20mADC into 750 Ohms maximum
Power Requirements:	120/ 220 Volts AC, 50/60 Hz.

MECHANICAL

Instrument Mounting:	Wall Mount
Electronics Enclosure:	NEMA 4X
Overall Dimensions:	12" high x 9" wide x 7" deep (approx. plus mounting tabs)



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