

FLEXTROL SERIES pH/ORP Controller



- ◆ Single Input / Dual Output
- ◆ Plug N' Play Simplicity
- ◆ One Touch Calibration - Easy To Use
- ◆ Over Feed Protection
- ◆ Simple Programming
- ◆ Pre-Wired for Chemical Metering Pumps
- ◆ Run Time Totalization
- ◆ Probe Wash

The **FLEXTROL** is a self-contained single input channel water probe monitor/controller designed for the specific application of measuring and controlling water quality.

The micro-controller based unit accepts one probe input, either pH or ORP and, in turn, can control one or two chemical feed pumps or solenoid valves. Either proportional or ON/OFF control can be selected by the user. The unit is field programmed to perform either pH or ORP control functions. A bright eight digit LED alpha-numeric display provides the user with instantaneous read-out of probe level together with setup prompts during operation. A computer is not necessary to program the unit.

Additional features include a second control output channel capable of being programmed for probe washing, alarm output or reversing pH control to up-down approach.

Total feed times for outputs #1 and #2 are separately recorded in totalized minutes to facilitate monitoring chemical usage. Either timer may be reset to zero as necessary.

All setup programming and calibration is performed through a label embedded panel mounted three-button keypad. Upon setup completion, the controller will easily and reliably take over the task of accurate chemical control. Default program setups allow operation immediately upon initial powering up. All setup parameters are saved in memory during input power disruption.

The controller will operate on 100 to 264 VAC 47/64 Hertz input power without internal changes. Units supplied by the factory to operate on 115 VAC are pre-wired with a five foot, 3-wire cord and molded plug. The ORP or pH probe with BNC connector plugs into the unit, and the pump or solenoid valve is either wired directly or plugged into the pigtail 3-wire receptacles.

Overfeed time is selectable to disable feed output in event of continuous feed conditions. The unit is responsive to a liquid flow signal using an optional cable assembly to disable both feed outputs in event of low or non-existent process flow.

A cable assembly (P/N 38899) is available as an optional item to connect a pH and ORP configured units together to provide ORP pump disable when the pH controller alarm set points are activated.

Chemflow 38903 flow switch assembly is available as an optional item to disable the feed outputs when flow through the sample cell is disabled. The flow switch connections also disable ORP feed when pH level is out of range as set by the pH alarm points. The flow switch may be used with a single or dual controller installation.

OUR STRENGTHS

Chemical Dosing
Integrated Controls
System Design
Systems Integration
Application Knowledge
Quality Engineering
Nimble Flexibility
Customer Service
Field Service

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APPLICATIONS

Cooling
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Chem-Flow Inc.
1450 W. Fullerton Avenue
Addison, Illinois 60101

Phone: 630.543.1911
Fax : 630.543.2089

www.chemflow.com



Applications:

- ◆ ORP, pH water control applications
- ◆ Cooling tower water quality control
- ◆ Waste water quality control
- ◆ Water park water quality control
- ◆ Chemical process control

Specifications:

- ◆ ORP Range: -1000 to +1500 millivolts
- ◆ pH Range: 0.0 to 14.0
- ◆ Proportional feed with adjustable proportional band: 0.0 to 1.0 pH, 0 to 50 mv ORP.
- ◆ ON/OFF feed with adjustable dead band, 0.2 pH, 25 mv ORP.
- ◆ Selectable feed up, feed down, overfeed time: proportional or ON/OFF control.



Single Pump Flextrol Panel

Output #2 acid feed can be preset for 1 to 24 hour delay before the acid probe wash feature will repeat every 24 hours. The data logger feature allows quickly reading the time to next acid wash. Acid wash duration is settable from 1 to 5 minutes.

Total feed times for outputs #1 and #2 are separately recorded in totalized minutes to facilitate monitoring chemical usage. Either timer may be reset to zero as necessary.

Display:

Eight (8) digit alpha-numeric red LED. Resolution +/- one digit. Temporary or long term power loss does not affect program setups.

Control Output:

Two solid state relays with zero cross-over AC switching contact closure, SPST, 5 ampere N.O. connected for proportionally controlling a motor driven, electronic pulsing type chemical addition pump or solenoid valve. Cycle reset time in the ON/OFF mode is one minute.

NOTE: Chemical addition pump voltages or other controlled devices must match input voltage level.

Controller Operating Voltage:

100 to 264 VAC, 47/64 Hertz. Fuse, external fuse holder 3AG, 5 ampere Slo-Blo.

NOTE: Chemical addition pump voltage or other controlled device must match input voltage level.

Programming:

Keypad data input for user programming desired operation. Unique keypad sequence necessary for changing parameter setups to prevent unauthorized or accidental program changes.

Enclosure:

PVC, 5" x 5"x2". Vertical mount using two tabs on enclosure. Unit does not have to be opened for installation or programming.

