

BIOS-700 Chlorine Monitor and Control FAC Free Active Chlorine Range 0 to 200 ppm • pH 0 to 14

BIOS-700 is an advanced monitoring and control system with a patented design, and features full automation of wash water disinfection with “hands free” operation. It uses modular NEMA 4X FAC Free Active Chlorine and pH based controls, built-in audio and visual alarms, high performance sensors, IP67 rated waterproof chemical metering pumps, and optional temperature and data recording. Free chlorine Range 0 to 200 ppm, pH 0 to 14.

Sanitizer and Acid Proportional Control:

FAC Free Active Chlorine (ppm) and pH monitoring and control system uses a patented design with a large digital display, designed specifically for the fresh food wash water applications. Advanced proportional control allows chemical pumps to speed up and slow down automatically, depending on the chlorine and acid value. When water chlorine levels fall below the specified set point, the chemical pump is activated to inject chlorine. Further the value is from the set point, faster the pumps will run. As the value gets closer, the pumps automatically slow down and turn off when the desired value is reached. Similarly as pH value increases, the acid pump speed responds proportionately to maintain optimum pH levels.

Unique interlock feature ensures that acid and chlorine are not added at the same time to prevent any volatile and dangerous reactions, and to prevent any seesaw effect in balancing the water chemistry. It first corrects the acid level with pH adjustment, and then adjusts the sanitizer level with chlorine correction. Chemical safety and balance also improves chemical usage and efficiency.

A thermal flow switch with no moving parts activates the PLC sequence, so the control system only functions if there is water flow in the process.

Alarm:

An alarm condition is controlled by specific algorithms in the PLC logic sequence, and occurs if the high or low alarm set point limit are exceeded, or if the chemical feed pump is feeding chemical for too long. Built-in 80db audio and visual strobe light alarm system alerts the operator in the event of a chemical or process failure, and shuts down all chemical pumps as a safety precaution. In the initial start up and whenever the alarm is reset, a delay timer prevents any alarms while the water chemistry is getting equalized.

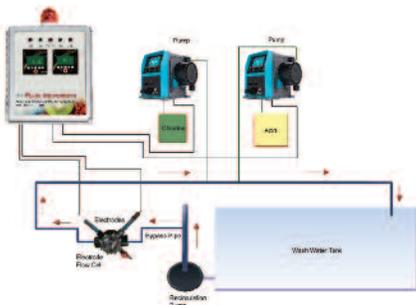


Includes:

Chlorine and pH control panel, Electrodes for chlorine and pH with a flow cell, two chemical metering pumps and a sensor manifold with a flow switch.

Optional:

USB Data Recorder, WebAlert Data recorder, Temperature monitoring.



Ordering Information

P11020	Free Active Chlorine Controller	\$3,900.00
QDOS30P	Waterproof Peristaltic Pump, 8.0 GPH	
EP5-pH	pH Electrode	\$750.00
EP5-FC	Free Chlorine Membrane Sensor Amperometric 0-200 ppm	\$1,900.00
MF-FC06-05	Manifold with flow cell for sampling and sensor	\$950.00