



BIOS-11 Chlorine Monitor and Control FAC Free Active Chlorine Range 0 to 200 ppm • pH 0 to 14

BIOS-11 is a PLC based 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 chlorine (ppm) 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. FAC Free Active Chlorine Range 0 to 200 ppm, pH 0 to 14.

Sanitizer and Acid Control:

FAC Free Active Chlorine (ppm) and pH monitoring and control system uses a patented design with a large digital LED display, designed specifically for fresh produce wash water disinfection. Simply set your chlorine and pH control set points. When the water chlorine value goes below the set point, it automatically turns ON the sanitizer pump or valve, and turns it OFF when it reaches the desired setting. Similarly, set your pH set point value, and whenever the value goes above the set point, it will turn ON an acid pump or valve and bring down the pH to the set point value and shut OFF.

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 flow switch 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

BIOS-11	Chlorine (ppm) & pH Control system with electrodes, manifold, and 2 chemical metering pumps. Free chlorine range 0 to 200 ppm, pH 0 to 14.	\$7,300.00
BIOS-11K2	Upgrade Kit for System 3 Model BIOS-03, Free Chlorine Range 0 to 200 ppm	\$2,900.00
DL-USB-4	USB Datalogger and recorder with software for graphs, charts and reports	\$250.00
DL011	WebAlert™ Datalogging with web based remote monitoring	\$1,950.00
PI-FD510X	Temperature monitor with PT100 RTD Temperature probe	\$845.00