

## BIOS-03 Monitor and Control Sanitizer ORP and pH

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 ORP 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.

### Sanitizer and Acid Control:

ORP 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 ORP and pH control set points. When the water ORP value goes below the set point, it automatically turns ON the sanitizer pump or valve (chlorine, chlorine dioxide, ozone, peroxy acetic acid PAA or any other oxidizer), 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 seasaw effect in balancing the water chemistry. It first corrects the acid levels with pH adjustment, and then adjusts the sanitizer chlorine level with ORP correction. Chemical safety and balance also improves chemical efficiency and usage.

A flow switch activates the PLC sequence, so the control system only functions if there is water flow in the process.



### Alarm:

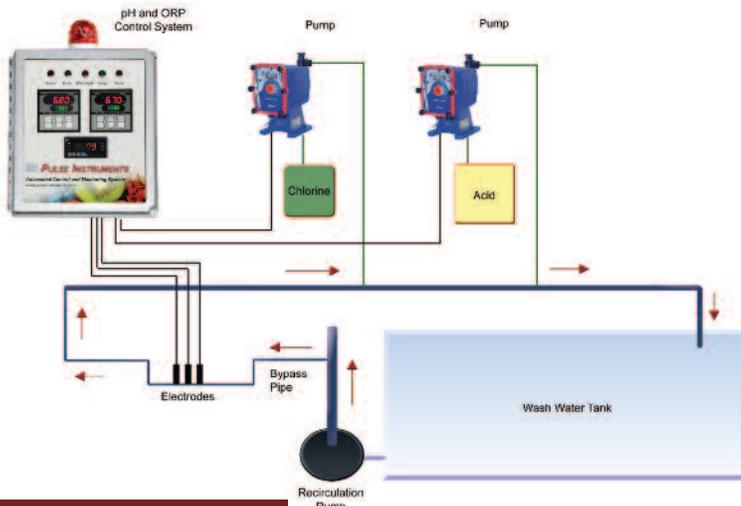
An alarm condition is controlled by specific algorithms in the PLC logic sequence, and occurs if the high or low alarm set point limit are exceeded, or if the chemical feed pump is feeding chemical for too long.

### Includes:

ORP and pH control panel, Electrodes for ORP 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 or temperature monitoring.



### Ordering Information

BIOS-03	pH & ORP Control system with electrodes, manifold, thermal flow switch, and 2 chemical metering pumps 6.7 gph	\$6,800.00
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