



Cooling Tower Water Level Controls

**NEVER REPLACE AN
ELECTRONIC LEVEL CONTROLLER
OR FLOAT AGAIN!**



STANDARD KIT

GENERAL INFORMATION:

The WLC Series may look like the competition but the unit is revolutionary in its design. The WLC Series is perfect in any application where water level management is important such as cooling tower basins and water holding tanks for cooling towers. It uses a microprocessor that monitors all probes for correct operation and then provides the corresponding outputs to drive power relays, the Building Automation System and a visual indication of the operational status. The Modular construction and a self-test feature insure user-friendly operation. By using a very low voltage and current, WLC Series sensors never foul or degrade.

So when we say "Never Replace A Water Level Controller Again" we mean it.

STAND ALONE SYSTEM WITH CONNECTIONS TO BUILDING MANAGEMENT SYSTEM.

APPLICATIONS

- Cooling Towers
- Designed for both initial installation and replacement of any brand.
- Large Cooling Tower Basins or Sumps using extension Rod Kits, 45.5" each, cut to any depth.
- External static pipe (optional)
- Direct replacements, function for function, for BAC* towers, EVAPCO* towers and Marley Towers*.
- Software customized for special situations.

* BAC is a registered trademark of Baltimore Aircoil Company. EVAPCO is a registered trademark of Evapco, Inc. Marley is a registered trademark of SPX Corporation.

COMMUNICATION WITH BUILDING MANAGEMENT

Building Automation dry contacts to tell building operator when:

- Power loss to controls
- Low water
- Heater inactive due to
- Fill cycle ON and OFF
- High water
- Heater active
- low-low water level
- Lightning strikes

FEATURES

- Easy to install.
- No moving parts or mechanical floats to break or rust.
- Lifetime Limited Warranty*
- Microprocessor controlled.
- Modular Construction
- * See Warranty for details
- Compensates for wave action.
- One-Step Internal Testing system for the electronics.
- Easy-to-understand LED display.
- Built for easy troubleshooting

PRODUCT SPECIFICATIONS

- Accurately manages levels to within 1/8" of operating range.
- Dry contacts for are rated for .5 amps at 60 volts.
- 30VDC, 24VAC or 110/220VAC - 50/60 Hz: specify voltage required when ordering.
- Sensor wire should not be spliced. Standard Kit has 50 ft. length.
- Separate power relay for each function.
- Sensor wire available in: 50 ft., 100 ft., 150 ft., 200 ft., 250 ft., 300 ft. or longer lengths if needed.

SENSOR PROBES

We make custom probes to fit any application. All sensor rod tips are threaded so Extension Kits can be added if needed.

Installations:

- A licensed electrician can install the control box and sensors in less than one hour.
- 110VAC Solenoid required. (We recommend any type of slow closing valve)
- Sensors attach to environment wall or Sensor mounts in an external static pipe or Sensor slips into a 3" female fitting.
- The sensor cable should be installed in a grounded metal conduit in order to prevent spurious signals from interfering with the sensor operation.

MODELS

PRODUCT FUNCTION TRUTH TABLE The Blank spaces below mean "No Connection or Function"

MODEL	BMS DRY CONTACTS							POWER RELAY				SELF TEST	HEATER CONTROL
	FAULT	POWER LOSS	HEATER CUT OFF	LOW ALARM	HIGH ALARM	FILL	BAS WIRES	HEATER CUT OFF	LOW ALARM	HIGH ALARM	FILL		
WLC3000	X	X				X	4				X	X	
WLC4000	X	X			X	X	6			X	X	X	
WLC4500	X	X		X		X	6		X		X	X	
WLC5000	X	X		X	X	X	8		X	X	X	X	
WLC6000	X	X	X	X	X	X	10	X	X	X	X	X	
WLC6100T	X	X	X	X	X	X	10	X	X	X	X	X	X

*All controls have built-in self testing systems.

Fill Height Only

Fill Height with High Level Alarm

Fill Height with Low Level Alarm

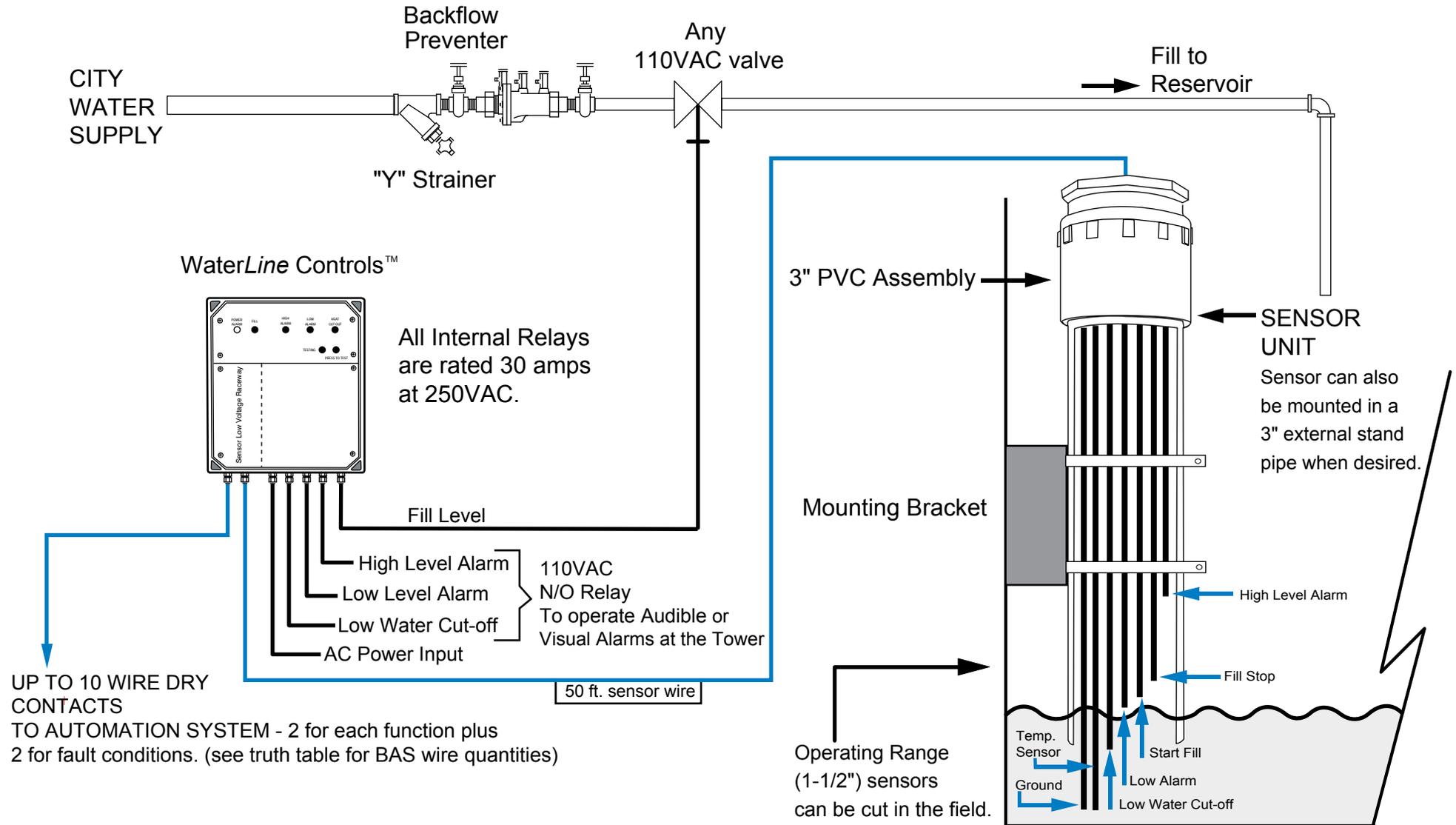
Fill Height with High and Low Level Alarm

Fill Height with High and Low Level Alarm and Low Level Cut-off

Fill W/ High and Low Alarm with Temperature controls for Basin Heater

UNIVERSAL DIAGRAM FOR ALL MODELS

FILL WITH HIGH LEVEL ALARM, LOW LEVEL ALARM, LOW-LOW LEVEL HEAT CUT-OFF & HEATER CONTROL

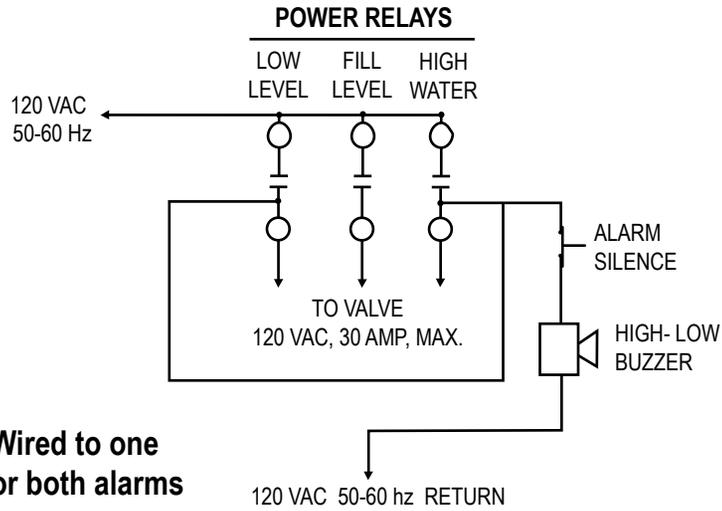


* Contact the factory for Custom Sensor requirements

* See written specification for more details.

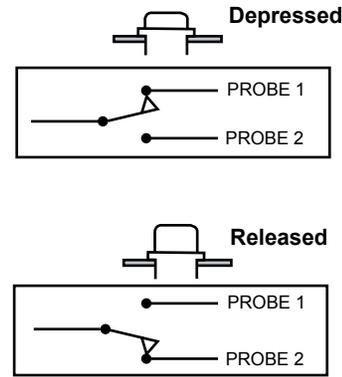
OPTIONS

Audible Alarms

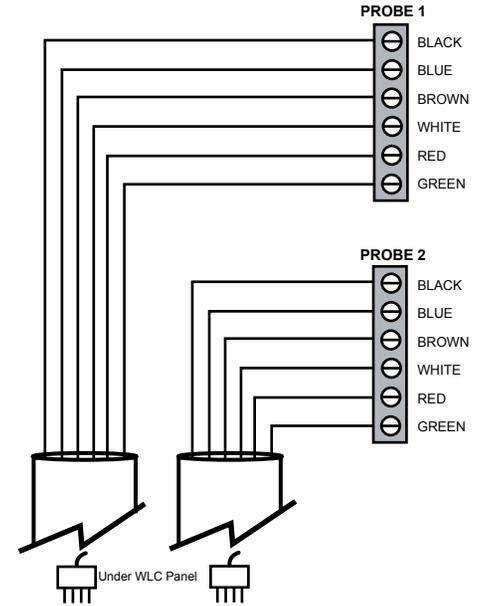


Wired to one or both alarms

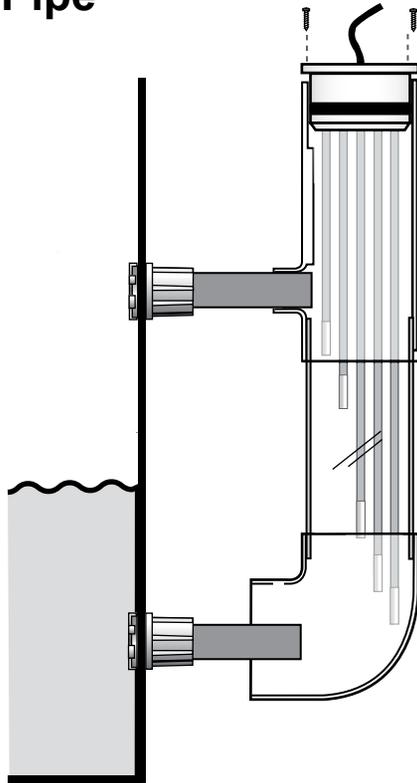
Dual Probe Sensors



- Push button latching switch.
- The switch is mounted on the Waterline Controls panel so no other components are required.
- The Sensor is intrinsically safe.



External Static Pipe



Tank Installation For Sensors over 18"

