



Water & Waste Water Treatment Plant

NEW INSTALLATIONS

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



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 or alarming is important for water conservation and proper allocation for managing water level.

Waterline Controls' proven accuracy manages water levels to within 1/8" of an operating range. This will ensure you accurately capture and record active pumps and alarms information you need to properly manage your system. We believe in our products so much that we offer a Lifetime Limited Warranty* for every one we produce. The Water level management systems used in this application can be either a pump up system, pump down systems or just as an alarm status system.

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 on the unit. 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. No high voltage in the unit area of the system. Any float switch can be used, consult factory for wiring details.

STAND-ALONE SYSTEM WITH CONNECTIONS TO BUILDING MANAGEMENT SYSTEM.

APPLICATIONS

- Sumps in Commercial buildings or basements.
- Storm water holding tanks.
- Designed for both initial installation and competitor replacement.
- Sewage controls for certain models WLC9000 - WLC9100.
- Uses our sensor system or floats.

* See Warranty for details

COMMUNICATION WITH BUILDING MANAGEMENT

Building Automation dry contacts to tell building operator when:

- There is power loss to the controls
- High water alarm-visual & audible 102 db
- Alarm or Pump active when water has reached the high set point
- There is improper wiring open or short

FEATURES

Easy to install.
Microprocessor controlled.
Easy-to-understand LED display.

Modular Construction
One-Step Internal Testing system for the electronics.
Built for easy troubleshooting

Can use any float assembly or WLC Sensors.
Lifetime Limited Warranty*

* See Warranty for details

PRODUCT SPECIFICATIONS

- Operate on 30 VDC, 24 VAC or 110/220 VAC 50/60 Hz. specify voltage required when ordering.
- Accurately manages or alarm levels to within 1/8" of operating range.
- Power relay for each function. 3 phase or single phase. All rated at 40 A resistive.
- Sensor wire should not be spliced. Standard Kit has 50 ft. length.
- 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. Any float switch can be used, consult factory for wiring. All sensor rod tips are threaded so Extension Kits can be added if needed. All other customer supplied float assemblies must be wired with shielded wire grounded to our WLC panel.

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

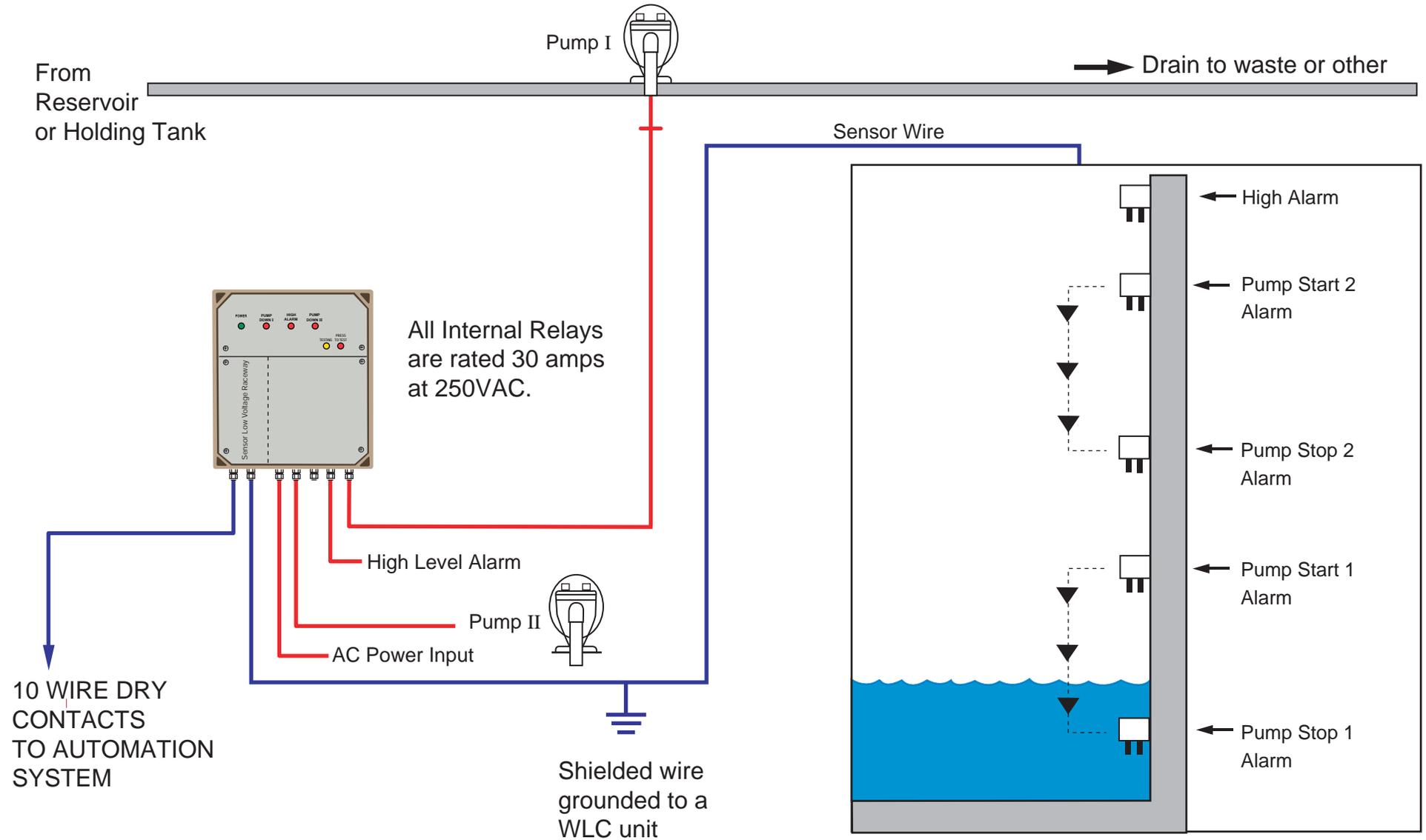
PRODUCT FUNCTION TRUTH TABLE

The Blank spaces below mean "No Connection or Function"

MODEL	BMS DRY CONTACTS							POWER RELAY		SELF TEST	BUILT-IN HIGH ALARM VISUAL & AUDIBLE	SINGLE PHASE	3-PHASE
	FAULT	POWER LOSS	ALTERNATES BETWEEN PUMP 1 PUMP 2	HIGH ALARM	PUMP/ ALARM I	PUMP/ ALARM II	BAS WIRES	PUMP/ ALARM I	PUMP/ ALARM II				
WLC7S40A	X	X			X		4	X		X		X	
WLC73P40A	X	X			X		4	X		X			X
WLC8S40A	X	X		X	X		6	X		X	X	X	
WLC83P40A	X	X		X	X		6	X		X	X		X
WLC9S40A	X	X		X	X	X	8	X	X	X	X	X	
WLC93P40A	X	X		X	X	X	8	X	X	X	X		X
WLC91S40A	X	X	X	X	X	X	8	X	X	X	X	X	
WLC913P40A	X	X	X	X	X	X	8	X	X	X	X		X

DIAGRAM FOR ALL MODELS

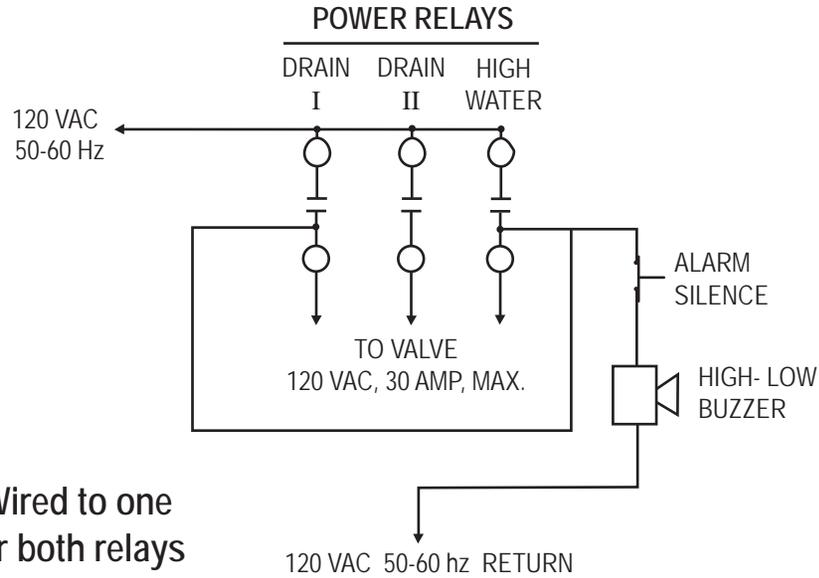
OPTIONS ARE: PUMP I, PUMP II & HIGH ALARM



Can be used as Pump Start Stop or Alarm Start Stop
 Optional: can be used for both by adding another relay to the alarm.

OPTIONS

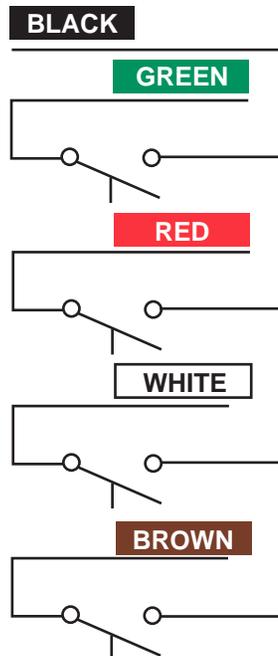
Audible Alarms



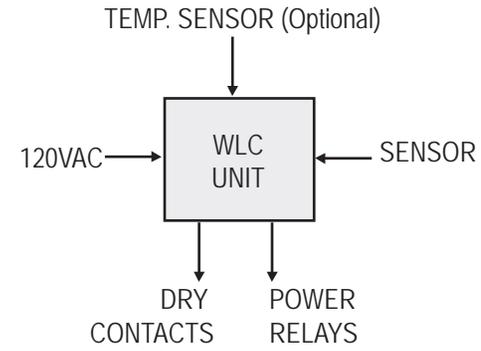
Any Float Assembly

High Pump to Low

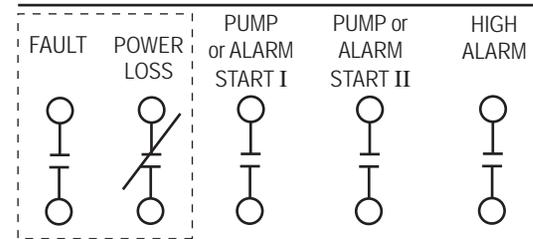
Use shielded wire grounded to the WLC panel.



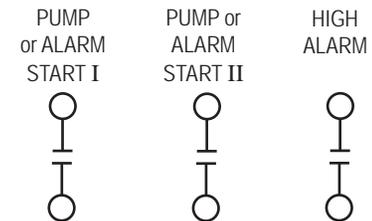
WIRING DIAGRAM "DRY" CIRCUIT



DRY CONTACTS



POWER RELAYS



LED INDICATORS

(INTERNAL TO THE CONTROL UNIT)
POWER LED GREEN • FAULT FLASHES RED

