

NEVER REPLACE AN ELECTRONIC LEVEL CONTROLLER



BOILER CONTROLS & ALARMS

GENERAL INFORMATION:

WaterLine Controls can be used on either the demineralized/deionized water system tank with Stainless Steel Floats custom made for your application or with ionized water using "spark plug" type sensors. The difference is that WaterLine Liquid level Control Circuit looks like the competition but it does not function like it. This system will operate so the sensors will never need to be replaced. WaterLine Controls is considered a complete kit for water level management, it includes the sensor the mounting assembly and the Control Panel. The Control Panel can also be used with existing sensors (consult factory). The only other item needed is a fill valve.

Waterline Controls ensures trouble-free maintenance for many years and provides a Lifetime Llmited Warranty* for all of the controls we produce. Whether you're looking to build a brand new state-of-the-art boiler system, or replace the boiler controls on your old system, Waterline Controls can provide you with the most reliable and long-lasting solution to your boiler control needs.

The probe sensors used by Waterline Controls systems are more than capable of withstanding the harsh conditions present in your boiler's water tanks and to provide the most accurate and dependable control for your boiler controls.

STAND ALONE SYSTEM WITH CONNECTIONS TO BUILDING MANAGEMENT SYSTEM.

APPLICATIONS

BOILERS

- Initial install and replacement
- Softwater tanks feeding Boilers
- Custom controls available for special situations.

Email: info@waterlinecontrols.com www.waterlinecontrols.com

COMMUNICATION WITH BUILDING MANAGEMENT

Building Automation dry contacts to tell building operator when:

- There is Power Loss to controls
- The Burner is inactive

- There are Remote manual activation controls (Burner reset, Test, 30 second Fill)
- Lock Out (timed Lock out on some models)

Lifetime Limited Warranty*

- Fill cycle is ON and OFF
- 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

* See Warranty for details

PRODUCT SPECIFICATIONS

- Accurately manages levels to within a fraction of an inch of operating range.
- 110/220VAC or 24VAC 50/60 Hz: specify voltage required when ordering.
- Power relay for each function.
- Dry contacts for are rated for .5 amps at 60 volts.
- Sensor wire should not be spliced. Standard Kit has 50 ft. length.

SENSOR PROBES

We make custom probes to fit any application.

we make custom probes to fit any application.

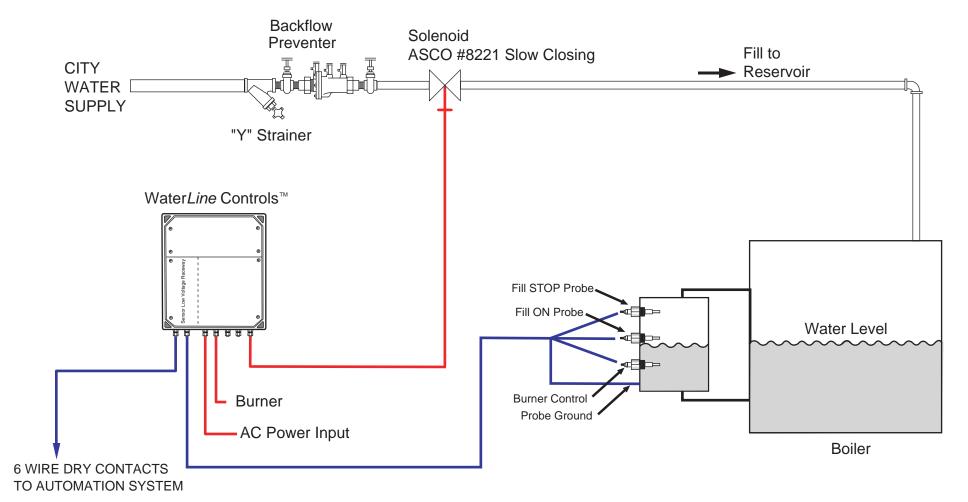
- **Installations:** A licensed electrician can install the control box and sensors in less than one hour.
 - 110VAC Solenoid required. (We recommend any type of slow closing valve)
 - The sensor cable should be installed in a grounded metal conduit in order to prevent spurious signals from interfering with the sensor operation.

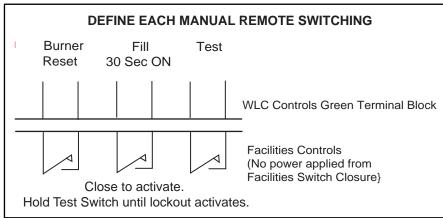
MODELS

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

MODEL	BMS DRY CONTACTS					POWER RELAY		TIME DELAYS						Each requires 2 wires MANUAL /REMOTES SWITCH RESET			PROBES
	FAULT	POWER LOSS	BURNER CUT OFF	FILL	BAS WIRES	BURNER CUT OFF	FILL	LWC Lock Out	LW OFF	HWC ON	AUTO TEST	TEST CYCLE	LOCK OUT	LWCD REST	TEST	FILL	
BLC3201	Χ	Х	Χ		4	Х										Optional	2
BLC3302	Х	Х	Χ	Χ	6	Х	Х									Included	3
BLC3303	Х	Х	Х	Χ	8	Х	Х	90 Sec					Х			Included	3
BLC3204	Х	Х	Х		4	Х			15	30						Optional	2
BLC3205	Х		Х			Х			15	30	10 Min	90 Sec				Optional	2
BLC3206	Х	Х	Х		4	Х			15	30	20 Min	60 Sec				Optional	2
BLC3207	Х	Х	Х		4	Х			15	30	15 Min	60 Sec				Optional	2
BLC3208	Х	Х		Х	4		Х									Included	2
BLC3209	Х	Х	Х		6	Х		30 Sec					Х	Х	Χ	Optional	2
BLC3210	Х	Х	Х		6	Х		30 Sec					Χ	Х		Optional	2
BLC3211	Х	Х	Х		4	Х									Χ	Optional	2
BLC3212	Χ	X	Х		6	Х		30 Sec					Χ	Х		Optional	2
BLC3213	Χ	Х	Х		4	Х			15	30	20Min	90 Sec				Optional	2
BLC3115	Х	Х		Χ	4		Х									Included	1
BLC3214	Х	Х	DRAIN DRY CONTACTS AND DRAIN POWER RELAY									2					

UNIVERSAL DIAGRAM FOR ALL MODELS

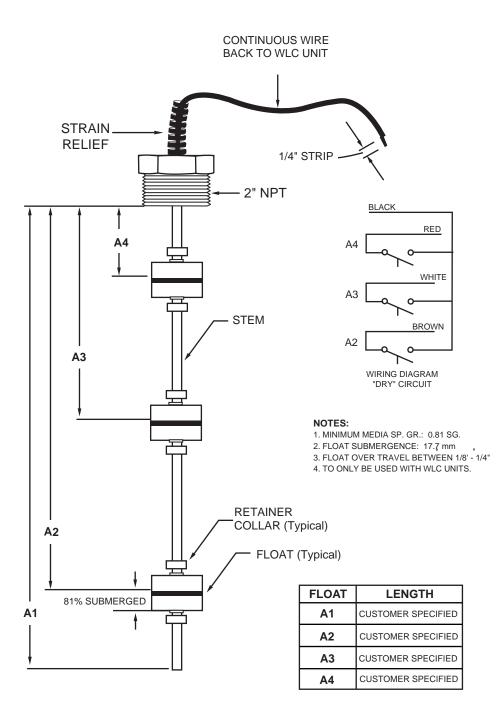




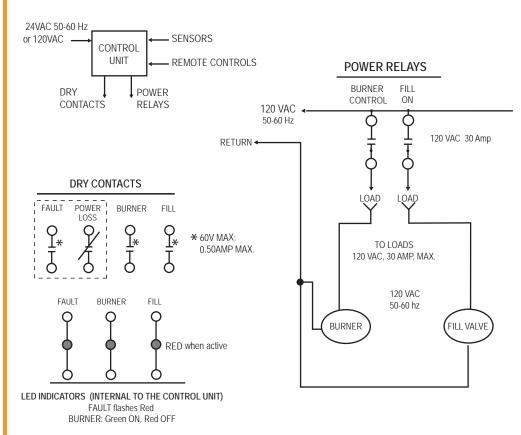
- * Contact the factory for Custom Sensor requirements.
- * See written specification for more details.

Waterline Controls							
P.O. Box 12544 Scottsdale, Arizona 85260							
Toll Free: 888-905-1892		Fax: 480-629-8223					
TITLE: Boiler Controls							
WATERLINE CONTROL	.S	DWN BY Pamela Crandall APPVD BY Bill Seneff					
SCALE: NTS	DWG NO.						
DATE: 06-10-2013							

OPTIONS



FUNCTIONAL WIRING DIAGRAM Boiler Control (Dry Contacts are 2 wires each)



STANDARD PROBE

