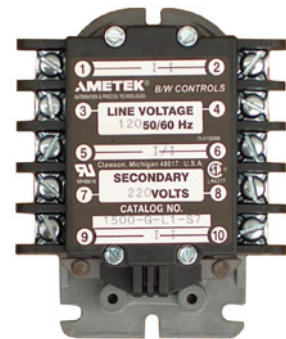


Series 1500B/W Liquid Level Controls

A B/W liquid level control system consists of a relay of the proper type, a holder designed to support one or more electrodes or probes in the liquid container, and the corrosion resistant electrodes themselves. The B/W Induction Type Liquid Level Control operates by utilizing a magnetic flux to induce a voltage in the secondary or electrode circuit coil. No current can flow in this coil, however until the circuit is completed between the electrodes. Thus, the electrode circuit voltage being generated within the relay has no connection with power line. The B/W 1500 induction relay utilizes the liquid as an electrical conductor to complete the secondary circuit between the upper and lower electrodes. Thus, when the liquid contacts the upper electrode, the resulting flow of current in this circuit sets up a bucking action in the lower bar of the core. This action tends to divert lines of magnetic force to the core legs and sets up an attraction that pulls the armature into contact with legs and closes or opens the contacts.

- The B/W 1500 Series Induction Relay with Field Convertible Contacts provides a versatile and reliable Liquid Level Control.
- Available with 1, 2, or 3 isolated double break contacts.
- Nine different contact arrangements to meet a broad range of applications.
- Contact arrangement can be added and/or changed in the field from N.O. to N.C. or N.C. to N.O.
- All contacts rated at 25 AMP, 1 HP at 120 or 240 VAC.
- Available as open chassis units or furnished in a choice of standard enclosures.
- When properly installed, it will draw a maximum of 9 volt-amperes regardless of the line or electrode circuit voltage.
- All terminals completely accessible and have #8 pan head screws with captivated wire clamp.



| Series 1500 B/W Liquid level Controls | | | | | | | |
|---------------------------------------|----------|------|-----------------|-------------------|------------------------------|-------------------|--------------|
| Product Number | Contacts | | Primary Voltage | Secondary Voltage | Max. Electrode Distance (ft) | Approx. Wt. (lbs) | B/W Model |
| | N.O. | N.C. | | | | | |
| 1500FL2S7OCX | 2 | 0 | 230 | 220 | 900 | 1 | 1500-F-L2-S7 |
| 1500HL2S7OCX | 0 | 2 | 230 | 220 | 900 | 1 | 1500-H-L2-S7 |
| 1500GL1S7OCX | 1 | 1 | 115 | 220 | 900 | 1 | 1500-G-L1-S7 |
| 1500GL2S7OCX | 1 | 1 | 230 | 220 | 900 | 1 | 1500-G-L2-S7 |
| 1500GL3S7OCX | 1 | 1 | 460 | 220 | 900 | 1 | 1500-G-L3-S7 |

PRIMARY COIL:

The primary coil voltage should be chosen to match the line voltage of the control system. The 1500 Series Induction Relay can be supplied with any of the following line voltages: 110-120 VAC, 208-240 VAC, or 440-480 VAC.

SECONDARY COIL:

Since B/W level control systems use the liquid as an electrical conductor to complete the relay's secondary circuit - and since the resistance of liquids varies, it is necessary that each induction relay be equipped with a secondary coil that will operate over the resistance of the liquid it controls. The standard secondary coil voltage for most water is 220 volts. For applications involving other liquids please consult Burdick & Burdick, Inc. for the correct secondary coil voltage.

MAXIMUM DISTANCE:

The maximum distance between the Model 1500 Relay and the electrodes for a 220 volt secondary coil used with normal well water is 900'.

CAUTION:

Electrodes are terminals of live electrical circuits and must be installed to prevent accidental contact by personnel. Control power must be disconnected before servicing.