



A Division of:
Light Engineered Displays, Inc.
109 Portwatch Way
Wilmington, N.C. 28412
Phone: (800) 251-2512
Fax: (800) 251-9878
Internet: www.ledinc.com
Email: sales@ledinc.com



Specifications

- **Power Input**
115 VAC, 60 HZ .5 AMP.
- **Operating Voltage**
12 VDC, Internal 12 VAC
54 HZ Detection Loop
- **Battery Backup**
12 VDC, 1.2 amp/hr battery
with automatic charger
- **Indicators**
LED Type, for Alarm, Trouble and
Power On status
- **Outputs**
Sonalert and Form-C contacts



Model WD-1

Model WD-4

General Description

The AquaALERT water detection system, featuring models WD-1 and WD-4, is specifically designed for water leak detection in concealed areas or any place water intrusion must be identified immediately so that corrective action can be taken.

Applications would include Electrical or Telephone Equipment rooms, Computer Room subfloors, or any sensitive area that is not normally occupied. Additionally, this system can be used to detect leaks along fluid piping lines. Also, fluid levels can be detected with our optional float switches (see the 6200 Series cutsheet located in the Miscellaneous section of our catalog).

The unit is housed in a metal backbox, with a key-lockable plexiglass door. All indicators and switches are visible from the front of the unit.

The system is designed to work with AquaALERT water detection cable, model WDC-100. Low voltage A.C. is used to supervise the detection loop. This eliminates Electrolysis of the sensing wires woven within the detection cable, a common problem with other systems.

Basic Operation

The WD Series Water Detection System contains one or four fully supervised detection zone(s). The circuit must be terminated at the end of the line with a 15K Ohm, 1.2 Watt resistor.

Normal (standby) operation is indicated by a green "Power On" LED.

An Alarm condition occurs when water comes in contact with the Water Detection cable. A Trouble condition occurs when the wiring to the sensor, or the wires within the cable, are broken.

When an Alarm condition occurs, the Red LED will light, the Sonalert will sound, and the Aux. relay contact will close. The Sonalert can be silenced by operating the momentary Acknowledge switch. The Red LED will remain lit until the Alarm condition is corrected. At that time, the LED will reset itself. The sequence is the same for a Trouble condition, except a Yellow LED will be illuminated. Multiple Zone Units have subsequent alarm features.



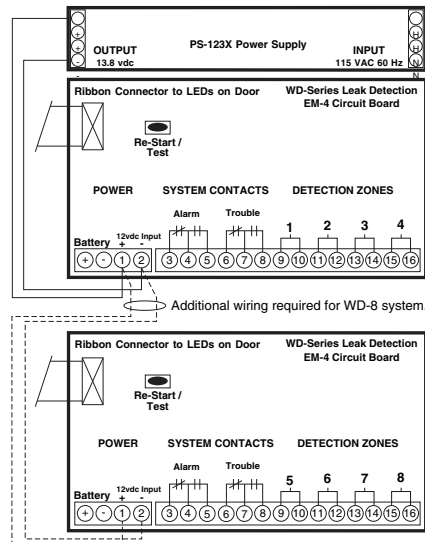
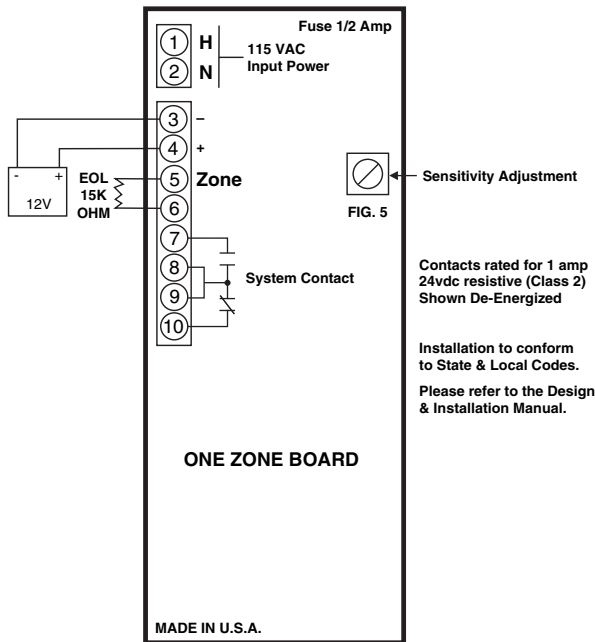
ZONE LEAK DETECTION SYSTEM

Architect/Engineer Specification

The contractor shall furnish, where indicated on plans, a Water Detection system. The Standard features shall include, but not limited to, the following:

- (1) The System shall utilize linear water detection cable.
- (2) The System shall utilize low power, low voltage A.C. for the detection circuits to protect the sensor from damage by electrolysis.
- (3) The System shall supervise the wiring and the actual water sensing conductors. The system will also provide LED indicators, an audible alarm and an auxillary Form-C contacts for system Alarm and Trouble conditions.
- (4) The System shall have adjustable sensitivity to allow for proper operation over a broad range of ambient field conditions.
- (5) The System shall operate from ordinary 115 VAC power and provide automatic battery back-up so that it will continue to operate during loss of normal power.
- (6) The System shall have a key-lockable cover to prevent unauthorized access to system wiring.
- (7) The System shall be model WD-1(4/8/16) as manufactured by AquaALERT, a division of Light Engineered Displays, Inc.

Circuit Board & Enclosure Details



NOTE: The WD-4 requires one EM-4 circuit board. The WD-8 requires two boards.
*Battery optional. Use 1.2 amp/hr 12vdc, gell cell type.

To locate intermittant alarms or trouble that are not identified by the status LEDs, press the "TEST" button. LEDs flash to indicate normal. Problem zones are indicated by a steady LED. You **MUST** press the test button again to return system to normal.

