

## Four Zone Water Leak Detection Equipment



Sized at 120mm wide x 150mm high x 80mm deep, the four zone water detection unit has been designed to monitor four independent zones in critical areas for water leaks via spot sensors or linear detection cable. Any number of spot sensors or a maximum of 50 metres of linear water detection cable can be connected to each zone. The range comes as standard with line fault monitoring of all four zone interconnecting cables and detection sensors. Any line disconnection including sensor from the controller will instigate a "Sensor Fault" alarm. The unit contains an audible warning device, Mute push button, History & history Exit buttons and a back lit alphanumeric display. A non-volatile event history is included as standard to show the past 250 events. This can be used to identify sensitive areas or faulty equipment. When water is detected by one of the zones, the display will start to flash with the location, the audible warning device will start and the zone alarm relay close. The unit will remain in this condition even if the water is removed from the sensor. Muting the alarm will stop the sounder and the display flashing. If water is removed from the sensor before pressing the "Mute Alarm" button, after Muting the display will revert back to its normal state indicating that no water is present and the zone alarm relay will de-energise. However if water is still being detected only the audible warning will stop leaving the location in the display and the zone alarm relay energised. Only when the water is removed from the sensor will the display revert back to its normal mode. Each zone is provided with a sensitivity potentiometer housed within the electronic interface box. This has been provided to allow individual zones to be set to high sensitivity for sensitive areas or low sensitivity for areas known to experience high humidity or water splashes. The WLD4 as standard has an individual relay for each zone with a normally closed set of volt free contacts. All four relays can be used to individually onward signal to a Building Management Systems, telephone dialler, control systems and Water Shut Off valves or can be wired together to give a common alarm output. Unlike other water detection units on the market, the unit uses

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a bi-directional (AC) signal within the sensors. Using alternating current stops electrolyses which causes the sensors to disintegrate leaving the system unable to detect water. The use of alternating current also allows the sensors to be continually monitored even when submersed in water. This allows the system to self reset after water has been removed for the sensor and no further action to reinstate or reset the system is required from the operator.

### **Features**

- Back lit alphanumeric display for ease of Alarm identification from a distance
- On board audible warning device to alert local operators of a problem
- Alarms latched until Mute operated to give indication of transient water leaks
- Zone signal isolation to stop multiple alarms due to sensors coming into contact with Earth
- Small foot print, wall or surface mounted
- Monitoring of each zone cable and sensor to ensure continuity and integrity
- A Bi-directional DC signal in the sensors to stop electrolyses and polarization
- Individual Zone sensitivity adjustment allowing any zone to be set for high to low sensitivity
- 250 Past Event History



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