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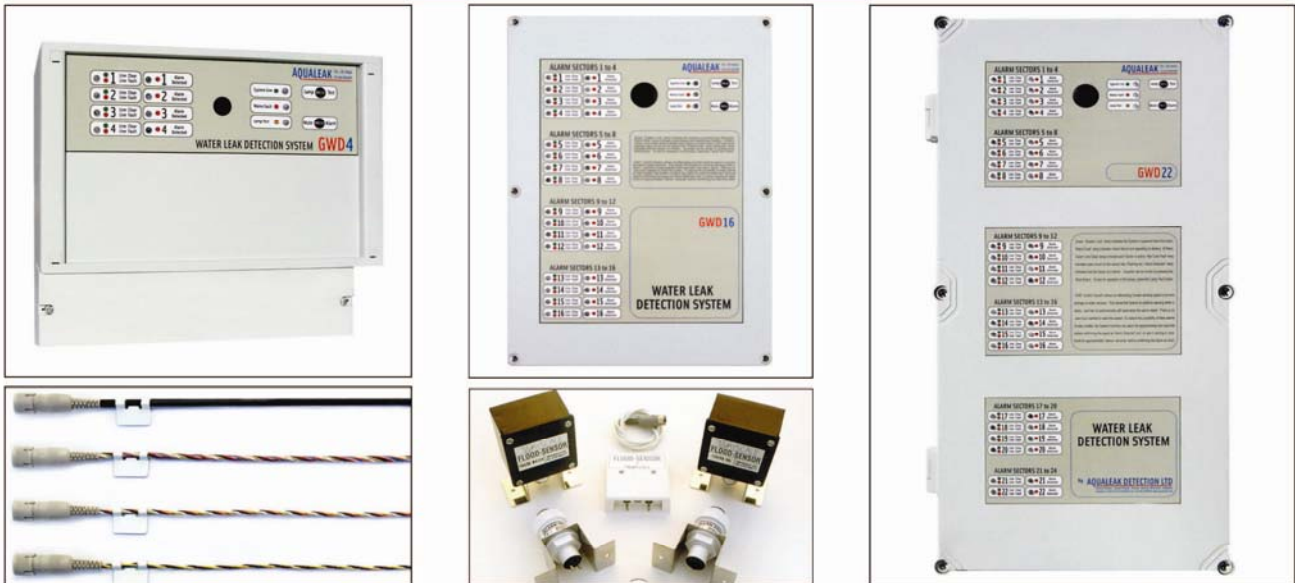
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WATER LEAK DETECTION SYSTEM: GWD 1-8, 1-16 and 1-32



The Aqualeak GWD range of Water Leak Detection Units continues to represent the latest technical developments in security against leaks in areas housing high technology equipment, archive records, etc. The GWD System pioneered the Aqualeak principle of using an AC field sensing signal to detect water rather than an erosive and oxidising DC signal. Well over 5,000 systems have been installed in the UK and overseas in the last 25 years, many using the Linear Water Detection Cable, also developed by Aqualeak.

The GWD Units are available in four cabinet sizes: 1 to 4, 1 to 8, 1 to 16 and 1 to 32 Zone cabinets, and can monitor from the full range of Aqualeak Linear Leak Detection Sensor Cables, Sensor Tape or from multiple Water Detection Sensor Probes, Sensor Pads, Overflow/Level sensors etc. GWD Units are supplied completely ready for use. All they require is screw fixing to the wall, a local power supply, and connection to the Sensors. Units have three levels of indication for each zone; green—LINE HEALTHY, red—LINE FAULT and flashing red—WATER DETECTED. The audible alarm is activated by any abnormal condition, latches on, and is silenced by pressing the mute button. When the Mute button is pressed the system will automatically reset, requiring no further operator input, but alarm lights remain on until the condition clears. An additional light indicates mains failure, and a Lamp Test Light and Test Button indicate the condition of indicator lights. GWD units can be supplied with an optional Battery Backup to allow the system to continue functioning for 10 hours under full alarm conditions during a mains power failure.

A range of Water Detection Sensor Cables are supplied in plug-connected lengths of 5 or 10m which connect to sockets in the control unit, to each other and to 'end of line' terminators monitoring for line continuity. Having stainless steel sensor cores the Cable is resistant to corrosion/erosion. The Cable is flexible and can be permanently bent into any required shape. If the detection area is some distance away, a plug-connected two-core 'Leader Cable' can be supplied, or plugs are provided for on-site installation. Water Detection Cable has advantages over fixed Pads/Sensors in cases where long lengths of pipework are being monitored or where an entire piece of equipment, or its footprint, needs to be monitored to ensure no water can leak without being detected. The Cable can be laid on the floor slab loose, fixed down with self adhesive plastic cable clips, or with the clips reinforced with contact adhesive. For pipework applications the Sensor Cable is tie-wrapped or taped to the base of the pipe. Please note the Cable should be on the *outside* of any lagging because lagging retains moisture. For monitoring of Air Conditioning Units the Sensor Cable should be laid in the floor void at least 300mm *wider* than the footprint of the A/C unit to ensure the humidifier carry-over does not activate false alarms. The multi-zone detection principle ensures that if more than one leak occurs in the same operational area this too can be detected. Sensor Probes/Pads are fitted in 'parallel' and are normally hard wired, with Leader Cable cut and terminated on site.

The GWD system operates from standard single phase mains supply. The field sensing voltage is bi-directional 5v alternating current to ensure that the Water Detection Sensors are electro-chemically cleaned of any oxidation during operating conditions. Adjustment Pots are provided for each zone to enable on-site adjustment of detection sensitivity. The System is provided with zone time-out alarm interrogation on water being detected, and on going out of alarm, to minimise false alarms. Each Zone continues to provide active water sensing throughout any Water Detected Alarm and does not go off-line or require any manual operator reset to reactivate the System. The System is provided with two 'Common Alarm' no-volt changeover relays which operate on water being detected by any zone. These can be linked to the Aqualeak Remote Repeater Panel, the Aqualeak Autodial Unit, or be linked into a computer based Building Management system, or can be used to shut water supplies via matched solenoid valves, or switch on sump pumps/drainage systems etc. The GWD System can also be supplied with optional Individual Zone Signalling which would provide appropriate zone alarms via individual no-volt changeover relays and Mains Power fault signalling via a further no-volt changeover relay.

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