

# Aqualeak WG2

The **WG2** system is a major water leak detection system specifically designed to comply with BREEAM WAT02 monitoring of water consumption and WAT03 major water leak detection criteria.



The **WG2** system covers the internal and external points of the mains incoming cold-water pipe of a building. It is programmable, has an audible alarm, and can identify different flow rates.

The standard two-zone **WG2** system consists of a WG

control unit, with 2 display panels marked 'internal' and 'external', connected to 2 pulsed output water meters. One meter is installed at the property boundary and monitors for external leaks. The other is installed inside the building, just after the stopcock, and monitors for internal leaks.

The system operates by monitoring the number of pulses given out by the pulse reader attached to the water meters (where 1 pulse equals 10 litres of water). If the pre-set amounts are exceeded, a signal is sent to the **WG2** unit which triggers a buzzer and a red warning LED lights up on the control panel to indicate an internal or external leak. Once activated the buzzer can be silenced, by pressing the mute button on the control panel, but the LED will remain lit until the leak is fixed.

The control unit can be programmed to monitor specific volumes of water, at specific times, which allows it to cater for set occupancy requirements. Parameters can be set in a range from 10 to 320,000 litres of water, in a 30-minute period, and for different days of the week. A pulse-splitter allows the pulses from the water meters to be registered at both the control unit and the building management system.

Optional latching valves are available to shut off the water when flow is exceeded or at specific times of the day.

**Typical applications include:** Schools, hospitals, prisons, commercial units, public buildings, office buildings and leisure centres.

## Benefits

- ❖ Reduces the impact of both internal and external water leaks that might otherwise be missed.
- ❖ Manages water consumption in buildings.
- ❖ Reduces risk of flooding by shutting off water supply.

## Main Features

- ❖ Complies with BREEAM 2014 Section WAT02/WAT03.
- ❖ Covers internal and external mains water supplies.
- ❖ Adjustable parameters including water volumes, occupancy periods and days of week.
- ❖ Audio-visual alarms when leak detected.
- ❖ Mute button.

## AQUALEAK DETECTION LTD

SPECIFICATION	
Dimensions (W x H x D)	WG2 (control unit): 296mm x 251mm x 118mm Meters: subject to pipe size
Power supply	230VAC single phase L.N.E LIVE fused with 20mm, 2A power fuse
Power consumption	<2A
Alarms	Audio - buzzer Visual - warning LED (flashing red)
IP Rating	IP65
External and internal alarm relay rating	230VAC, 6A
Reset relay rating	230VAC, 2A
Panel to meter cabling	Screened 1mm <sup>2</sup> conductor (pair) up to 500m
Panel to latching valve	1mm <sup>2</sup> conductor (pair) up to 100m 2.5mm <sup>2</sup> conductor (pair) up to 500m
Accreditations	CE marked
Compliance	Low Voltage Directive 73/23/EEC
	EMC Directive 89/336/EEC
	BREEAM 2014 Section WAT02 monitoring of water consumption
	BREEAM 2014 Section WAT03 major water leak detection
Product code	WG2