



The Aquitrion AT-WM is a pulsed water meter, leak monitoring system that has been specifically designed to comply with the requirements of BREEAM (BRE Environmental Assessment Method) Credit Criteria assessment applications, Wat 2 and Wat 3.

The AT-WM system will allow designers, M&E contractors and developers to achieve the "Credit Point" available for water conservation.

The system is designed to monitor water flowing through a pulsed water meter. If the volume of water reaches the preset limit (customer adjustable) the system can isolate the mains water pipe therefore limiting the amount of water and leak damage.

**System features:**

- Mains water pipes ranging from 22mm to 200mm
- Programmable for different flow (leakage) rates
- Two levels of monitoring (e.g. occupied and unoccupied building)
- Programmable time periods to determine alarm levels
- Automatic setting of alarm levels via a door entry or intruder alarm
- Meets BREEAM Wat 2 and Wat 3 requirements

The AT-WM comprises of a control panel linked to a pulsed water meter. For a typical BREEAM installation a meter would be fitted just after the utilities companies' water meter and monitors the water pipe external to the building; covering the entire pipe within the grounds up to the point the water enters the building. A second system would be fitted after the main isolation valve or stop-cock inside the building. This second meter would monitor for any flow or potential leaks within the building.

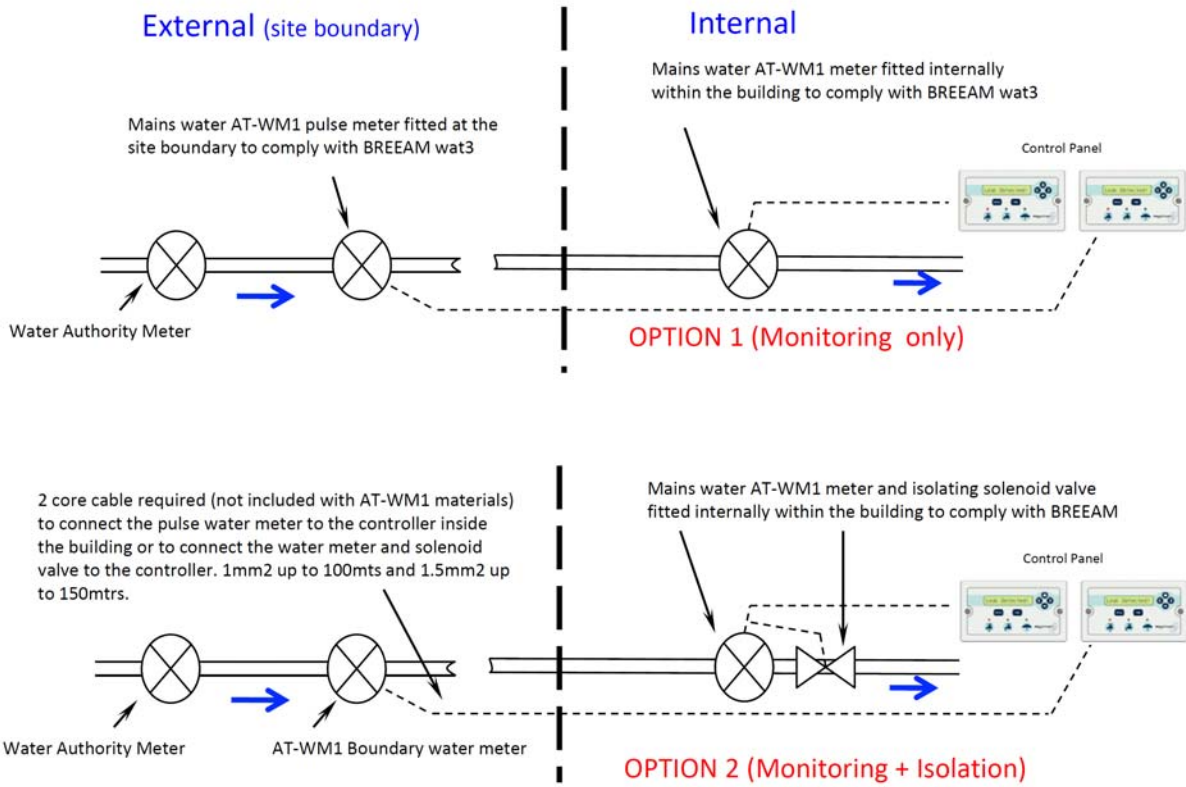
The system is provided with visual and audible alarms combined with an optional set of volt free alarm contacts for use when the flow exceeds the pre-set limits.

The panel will also operate a solenoid valve(s) to isolate the water; these are typically installed adjacent to the water meter.

**Technical information**

**Control Panel**

|                                |   |
|--------------------------------|---|
| Size (WxHxD)                   | 145 x 85 x 50mm                                 |
| Power                          | 230Vac, max 3 amp unswitched                    |
| BMS relay (optional)           | 24vdc, 1 amp                                    |
| Solenoid valve (20mm to 54mm)  | 6vdc derived from the control panel             |
| Solenoid valve (65mm to 200mm) | 230Vac controlled through a separate relay unit |



| Model      | Description                                |
|------------|--|
| WM1-CM-22  | WM1 Controller and Meter only, 22mm Meter  |
| WM1-CMV-22 | WM1 Controller Meter and Valve, 22mm Meter |

- Size in mm of the water meter, sizes range from 22mm to 200mm
- V = Includes a solenoid or isolating motorized valve
- M = Meter, ie water meter
- C = Controller or programable alarm panel
- WM1 = Single channel Water Monitor  
When two systems are required to monitor within the building, and at the boundary, two WM systems will be required.

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