

AT-WM Pulse Water Meter System

Commissioning Readiness Record

PRE-COMMISSIONING CHECK LIST - GUIDANCE NOTES

Please ensure you read the form carefully and accurately fill in all the parts. Commissioning **cannot** be carried out without this information.

This guide is for information only, any figures/amounts shown are given as an example and should be verified as correct with your site conditions.

A simple overview of what we are trying to achieve, is to find out when the building is occupied and how much water should be used in this period (low guard) and alternatively how much water is expected to be used when the build is unoccupied (high guard).

- Most commercial sites open regular working hours can use the weekday/weekend setting. However it is possible to have different times for all seven days.
- High (Hi) guard will **always** be a smaller amount in volume than Low (Lo) guard.
- This volume amount can be per: half hour, hour, day or guard period. *(For most accuracy, most projects are set up to half hour or hour time periods and unless directed otherwise we will set the system up for half hour time periods.)*
- We would normally recommend the water usage figures are sought from the consultant.
- If these are not available it is important to consider the actual anticipated usage, **NOT** maximum flow rates. If maximum flow rates are used the system will obviously never be able to exceed these and will not go into alarm.

Eg. Settings for a typical large office program may look like this:

- Lo Guard time period: 08:30 - 18:00
- Maximum anticipated actual water usage when the build is occupied in litres (Lo Guard) - 2000 *(system will alarm if more than 2000 litres is used in any half hour period between 8:30am and 6:00pm.)*
- Maximum anticipated actual water usage when the building is unoccupied in litres (Hi Guard) - 100 *(system will alarm if more than 100 litres is used in any half hour period between 6:00pm and 8:30am.)*

If necessary the following figures can be used as a rough guide to make a calculation:

Activity	How much water is used?
Running a tap	8-12 litres per minute
Washing up in a sink	6-8 litres
Washing hands and face	3-9 litres
A normal (electric) shower	6-12 litres per minute
A power shower	13-22 litres per minute
Flushing a toilet	6-12 litres
Running a modern dishwasher	15 litres
Running a modern washing machine	60-80 litres
Having a bath	75-90 litres
Using a hosepipe	550-1000 litres per hour
Food and drink preparation	6-10 litres

Source: Anglian Water

N.B. While these figures are required to commission the system, all values are user adjustable if changes to site circumstances deem it necessary. Instructions on how to do this is part of the commissioning process.

Pre-commissioning check list

Aquilar are the specialist distributor of the Aquitrone AT-WM pulse water meter leak detection system and BREEAM major leak detection system and are able to offer onsite system set-up and commissioning.

Please find listed below the system details required to commission the system.

Important: Commissioning cannot be carried out without this information. Any dates given or requested for commissioning will be considered provisional and not be confirmed, or an engineer visit booked in, until a completed form is received by Aquilar.

AT-WM Controller Set up details:

For many BREEAM projects the peak flow volume (litres volume per 30/60 minute period) and the setting "Permanent" are used, this removes the need for setting up the controller for all the different days and times the building will be occupied/unoccupied.

If you require assistance or guidance in answering these points, please contact the commissioning engineer or our technical team.

The following information must be supplied to enable the commissioning engineer to set up the controller(s). Multiple controllers will be set separately and independently.

One of these five guard levels must be selected -

1. **PERMANENT**, This has just one setting covering all days/times of the week
2. **DAILY**. Every day is set the same,
3. **SEVEN DAY**, individual days
4. **WEEKEND/WEEKDAY**, separate settings for weekend and weekdays
5. **ALARM**, automatically sets the guard level from the intruder alarm, if connected

Please confirm all of the following

- A. Days of the week when the building will be occupied ie Mon to Fri only or Mon to Sun
- B. Times during those days when it is occupied, ie 07:00 to 18:00
- C. Maximum occupied anticipated water usage in litres (NOT max flow rate)
(Exceeding this limit during Low Guard period time will cause an alarm)
- D. Maximum unoccupied anticipated water usage in litres (NOT max flow rate)
(Exceeding this limit during High Guard time period will cause an alarm)
- E. Have the water meter(s) been installed
- F. Access to the water meters will be required to check wiring. Access Available?
- G. Has the solenoid valve (if supplied) been installed and wired (only aquilar valves can be used)
- H. Has all cabling from the water meter(s) to the controller been installed.

Note: 2-core screened cable, must not be run in close proximity to mains cables

- I. Has a 230vac socket outlet for the controller's plug-in PSU, been provided and made live.
- J. If any of the equipment is at high level, a tower, platform or steps will be required (not supplied by Aquilar)
- K. Any witnessing and demonstration will be done directly after the set-up has been completed
- L. Full site address

- M. Site engineer's name and contact number

- N. Is a site induction required and if so, what time?
- O. Will the engineer require full PPE?

Any Other Relevant Information:

Note: Commissioning will not be provided for any AT-PIR systems supplied.

The Aquilar engineer carrying out the commissioning will have a valid CSCS card for induction purposes.

Please note

Any aborted visit may incur a charge at 100% of the previously agreed commissioning visit cost unless cancelled in writing a minimum 48hrs prior to the booked time. To complete commissioning a new booking would be required.

Email Form

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