

Merlin WDP



Water Detection Panel

Pre-Commissioning Checklist – Guidance Notes

Please ensure you read the form carefully and accurately fill in all the parts. Commissioning cannot be carried out without this information. Refer to the WDP manual for further information. The WDP has three Protection Modes:

Protection Mode: Volume Per.

Different times can be set for each day (each day must be set individually). The general rule for the high-volume times is to set this higher value for when the building is occupied.

E.g., Settings for a typical large office program may look like this (using Protection Mode: Volume per)

- Protection time-period: 08:30 - 18:00 weekdays. Weekends 'Day Off'.
- Maximum anticipated water usage when the building is occupied in litres (High Vol. Amount) – 2000, this means the system will alarm if more than 2000 litres is used in any half hour period between 8:30am and 6:00pm.
- Maximum anticipated water usage when the building is unoccupied in litres (Low Vol. Amount) – 100, this means the system will alarm if more than 100 litres is used in any half hour period between 6:00pm and 8:30am.

Protection Mode: Timed.

Timed does not measure volume. Instead, it will allow water flow for defined periods of time. (10, 15, 30 or 60 minutes). Any uninterrupted flow above this user defined time will put the system into alarm. This volume amount can be per half hour, 1 hour, or 24 hours day (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.)

Protection Mode: Crosscheck.

Crosscheck gives the panel flexibility to be used in applications where a comparison of two meters is required, e.g., a block of flats with heat interface units, especially useful if flats are left unoccupied for long periods. The flow and return into each flat can be monitored. If more water goes in than comes out, then the water loss will trigger an alarm condition.

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 necessary, the following figures can be used as a rough guide to make a calculation.

Source: Anglian Water

Activity	How much water is used? (Litres)
Running a tap	8-12
Washing up in a sink	6-8
Washing hands and face	3-9
A shower	6-22 per minute
Flushing a toilet	6-12
A modern (normal) dishwasher cycle	15
A modern (normal) washing machine cycle	60-80
Running a full bath	75-90
Using a hosepipe	550-1000

Pre-Commissioning Checklist

S&S Northern LTD is the specialist distributor of the Merlin WDP (water detection panel) system and can offer onsite system set-up and commissioning. Please find below the system details required.

For many BREEAM projects the peak flow volume (litres volume per 30/60-minute period) and the setting “Volume Per” is used. 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.

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 S&S Northern Ltd.

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

Please confirm the following –

Volume Per	Weekday protection time when building is occupied, i.e., 07:00 to 18:00	
	Saturday protection time when building is occupied, i.e., 07:00 to 13:00	
	Sunday protection time when building is occupied, i.e., Day Off (unoccupied)	
	Volume per time-period, i.e., 30, 60 mins or 24 hours	
	Maximum <u>occupied</u> anticipated water usage (High Vol. Amount) in litres	
	Maximum <u>unoccupied</u> anticipated water usage (Low Vol. Amount) in litres	
Timed	Water Flow Time Period	
	Reset, i.e., Manual or Automatic	
Crosscheck	Tolerance (Sensitivity of alarm condition), i.e., 0, 10 or 20%	
	Volume per time-period, i.e., 30, 60 mins or 24 hours	
Water Meters	Water meter(s) installed, i.e., Boundary / Secondary / Both	
	Boundary Meter Pulse Rate, i.e., 1, 10 or 100 Litres	
	Secondary Meter Pulse Rate, i.e., 1, 10 or 100 Litres	
	Access to the water meters will be required to check wiring. Access Available?	
	Has all cabling from the water meter(s) to the controller been installed?	

General	Has the solenoid valve (if supplied) been installed and wired?	
	Which type of solenoid valve has been used, i.e., 24Vac or Mains 240Vac	
	Has a power UPS (Uninterrupted Power Supply) been installed into panel?	
	Is any of the equipment at high level, requiring a tower, platform, or steps?	
	Full Site Address:	
	Site Engineers Name & Contact Details	
	Site Induction Required	
	Induction Details	
Any Other Relevant Information		

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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