

Waterguard

TECHNICAL SPECIFICATION: WATERGUARD PUDDLE

The New Standard for Multi Zone Water Leak Detection

Waterguard Puddle is the latest innovation in specialist equipment designed to detect any water leak in residential, commercial and industrial applications.

WORKING PRINCIPLES

The Waterguard Puddle is the latest development in multi zone water leak detection technology. Its language free control unit requires no setup or maintenance making it the easiest system on the market to install and operate.

Each system can monitor up to 5 water leak detection channels using various water sensing devices dependent on application. These include, water sensing cable or tape, water sensing feet and/or float switches.

Options available include but are not limited to; an alarm only system, automatic water shut off and offsite system event communication.

The Puddle includes only WRAS approved plumbing components.

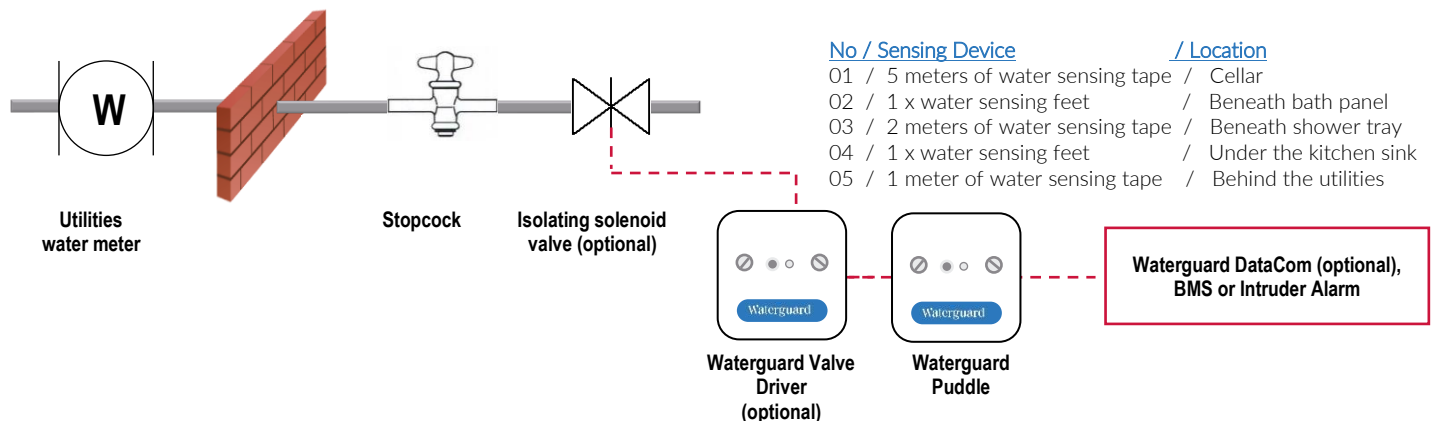
FEATURES AND BENEFITS

- Cover up to 5 zones with 5 water leak detection channels
- Sequential audio and visual alerts to indicate which channel has alarmed
- Alarm only as standard with option to automatically shut off the water supply
- Intelligent sensing, the Puddle will not re-alarm if the amount of water contacting the water sensing devices remains the same
- Output connection available to Waterguard DataCom, BMS or intruder alarm
- Fast and simple installation, no set up required

SYSTEM CONFIGURATION OPTIONS

Complete Home Cover

*Example only, other options available



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TECHNICAL DATA

Waterguard Puddle – WTL Ref No. 6158

	Alarm Only	Automatic Shut Off
Size (w x h x d)	80 x 80 x 13mm	80 x 80 x 13mm x 2
Power	12vdc 250mA/72 Mw (transformer included)	12vdc 250mA/72 Mw (transformer included)
Burst Power	N/A	840mW for 5 seconds
Backup Battery	None	
Alarm Output	Yes, to BMS/intruder alarm or Waterguard DataCom Maximum switching voltage 50V, maximum switching current 1A	
Cable	Speaker cable, twin or three core flex all suitable. Not supplied	
Recalibration	4 minutes after alarm disabled	
Valve Outputs	N/A	6vdc derived from the control panel

Water Sensing Cable and Tape

	Sensing Cable	Sensing Tape
Drying Time	Within 15 secs of removal from standing water	20 minutes to 2 hours, depending on the environmental conditions
Dimensions	Cable diameter: 0.24 in. (6.0mm) nominal	20mm x 3mm thick
Length	Recommended maximum length 50 meters	
Material	Fluoropolymer	Polyester “woven” construction
Fitting	1/4" hold-down clips and adhesive	Flat ribbon type clips, self-adhesive clips or tie-wraps
Connection	Maximum 10 meters of leader cable (connection between Puddle controls and water sensing device)	
Installation	The location of water sensing cable is critical to the effective operation of this system. Great care should be taken to locate away from areas likely to suffer from normal dampness and condensation, as this may trigger false alarms. Each water sensing device must be installed in a usually dry area.	
Position	Any water sensing cable or tape must be positioned at least 20cm away from any mains cables.	

ADDITIONAL TECHNICAL DATA – AUTOMATIC SHUT OFF VERSION ONLY

Waterguard Valve Driver

Power Requirements/Relay Ratings	85 to 265V AC maximum, 50-60Hz
Cable	2 core copper 0.75mm ² (under 50 meters) 1mm ² after
Relay Output Switch Capabilities	Voltage: 277V AC/30V DC. Current: 3A (resistive load)

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ADDITIONAL TECHNICAL DATA – AUTOMATIC SHUT OFF VERSION ONLY

Solenoid Valve – WRAS Cert No. 1901033

Classification		Hydraulic Connections	
Type	Single	Inlet	BSP Female Thread
Geometry	180 C	Outlet	BSP Female Thread
Working Specifications		Physical Specifications	
Working Pressure	0.5 / 10 bar	Valve Body	Polyamide 30% fibre glass
Room Temperature	0 / 60 C	Diaphragm and Gaskets	NBR (buna)
Fluid Temperature	60 C	Core	Stainless Steel
Duty Cycle	ED 100%	Spring	Stainless Steel
Flow Direction	Unidirectional	Assembly	With screws for inspection
Nominal Diameter	DN ½" – 1 ¼"	Coil	Watertight – C.E.I IP 55
Control	NC, NO, Latching	Cable Length	Aprox 600mm
Installation			
In all positions, manual override by solenoid coils rotation			
Electrical Connections			
Electric Connect 1	Male Faston 6.3 x 0.8 mm – IP X0		
Electric Connect 2	Unipolar Cables max 300 mm – IP 55		
Electric Connect 3	Bipolar Cables max 5000 mm – IP 55		

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Any application, water leak detection and prevention.
To find your solution visit www.waterguard.co.uk.

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