

TCM5PS Rainwater Controller

Electronic Pump Control with Mains Water Top-up

- For Direct Rainwater Systems with Manual Pump
- Controls a Rainwater Pump and Mains Top-up Solenoid Valve
- 230VAC Pump & Solenoid Valve Control
- Dry-Run Protection & Anti-Blocking Feature
- Adjustable Pump Start Pressure
- For pumps up to 2Hp (1.5kW)
- Type AA Air-Gap Complies with BSEN13076:2003
- Visual Pump Failure Alert

How Does It Work?

TCM5PS consists of an electronic pressure and flow monitoring pump controller, and mains cold water top-up system. Any manual pump up to 8A with at least 1.5 bar pressure can be controlled to provide a reliable flow of pressurised water on demand. This system is not intended for automatic pressure controlled pumps such as SteelPumps X-AJE series or DAB Divertron.

The restart pressure can be adjusted from the factory default of 1.5 bar by using a dial on the back of the control unit. This allows the installer to set the restart pressure to anywhere within the range of 0.8 - 2.2 bar.

The incoming rainwater supply to the building passes through the control unit, where pressure and flow are sensed and the pump controlled accordingly. A pressure vessel is recommended and this should be installed in the pipework after the controller.



This product features dry run protection with a visual warning light on the control panel to provide indication of a pump fault.

An integrated Anti-Lock feature protects against possible pump seizure during infrequent use by starting the pump once every 24 hours, maintaining lubrication of shaft seals and ensuring regular rotation of the motor to reduce the possibility of blockage.

Dry-run detection is achieved by flow sensing, protecting the pump in the event that there is no water present, the pump becomes blocked, or the discharge pipework becomes disconnected from the outlet of the pump. In the event of a dry-run TCM5PS will shut down the pump and illuminate a warning light until the user intervenes and resets the system.

A brass solenoid valve provides a measured top-up of mains water via a type A-A air gap in the event that the tank level becomes low.

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Specifications	
Control Unit	
Material	PA6 FV
Weight	950g
Dimensions	220x200x120mm
Mounting	In-Line 1" Male BSP Tapered (MBSPT)
Working Pressure	1.5 - 8 bar
Restart Pressure	0.8 - 2 bar
Min. Differential Pressure	1.5 bar
Maximum Overpressure	12 bar
Operating Temperature Range	0°C to 50°C
Liquid Temperature Range	1°C to 40°C
Liquid Type	Clean Water - No Solids - pH 5-9
Ingress Protection	IP65
Mounting bracket	
Material	Steel, Zinc Electro-plated
Overall Assembly Weight with Controller and Solenoid	2935g
Total Product Weight (inc. Float Switch)	4935g (15m Float), 5535g (20m Float)
Overall Dimensions with Controller and Solenoid mounted	210mm (Height) x285mm (Width) x173mm (Depth)
Float Switch	
Type	Mac3 KEY with counterweight, P/N: KPM1506KY0C or KPM2006KY0C
Supply Voltage	230VAC
Mains Water Top-Up	
Type	Solenoid Valve 1/2" BSP, Servo Assisted or Direct Acting
Supply Voltage	230VAC
Pump Output	
Type	Single Phase with Protective Earth
Supply Voltage	230VAC at 8A (AC3)

**We supply float switches and sensors for use with this product in various lengths and types.*



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