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Watchdog² Fire Sprinkler Controller

Martech's Watchdog2 has been developed to meet the latest BS9251-2021 requirement for sprinkler system integrity and maintenance. The Watchdog2 draws on a wealth of experience of designing and manufacturing sprinkler controllers. Key features include:

- **BS9251-2021 Compliance**
- **Fully automated weekly system test**
- **Easy set up and configuration**
- **Failsafe operation**
- **Inputs for**
 - **Dual pressure sensors**
 - **Flow sensor**
 - **Low water sensor**
- **Outputs for**
 - **Pump**
 - **Divertor valve**
 - **Fire/Fault/Low water Alarms**



During normal operation Watchdog2 constantly monitors all inputs looking for changes in pressure or flow. A drop in pressure on any pressure switch will cause the pump to initially operate in jockey-mode to re-pressurise the system (i.e., for a slow leak) before switching to fire mode if pressure is not reinstated. Activation of the flow sensor at any time will trigger fire mode immediately.

Watchdog2 automatically runs a regular system test (weekly by default) by opening the divertor valve to reduce pressure, checking operation of both pressure switches and running the pump to reinstate pressure.

Setting up and configuration is extremely easy, requiring NO configuration to be carried out on-site (where default settings are used). For more advanced installations, settings can be configured remotely and uploaded via a USB memory stick.

LED indicators on the Watchdog2 front panel show key system status.

To aid installation and configuration Watchdog2 can be put into a diagnostic mode, allowing sensors and inputs to be monitored without it switching into fire mode.

Two push buttons on the front panel are used to initiate manual test and to stop the system when fire mode is triggered

Designed and manufactured in the UK, the Watchdog2 complies with all safety requirements, and gives you the peace of mind that your fire safety system is in full working order.



Watchdog²

Fire Sprinkler Controller

Technical specification

Dimensions	Width	254mm
	Height	180mm
	Depth	90mm
Construction	Fire resistant Polycarbonate to UL 94V, IP65 rated with cable-gland knock-outs	
Safety	CE and UKCA compliant, BS9251-2021 Compliant	
Power	230Vac, 15Amps maximum pump current (Watchdog standby <5Watts)	
	230Vac, 5A change over contact for divertor valve Internal rechargeable battery backup for clock/timer <i>Requires installation by a qualified electrician</i>	
Inputs and outputs	INPUTS Pressure switch x 2 (normally closed contacts, pressure switch opens on low pressure) Flow switch with software configurable delay (normally closed contact, switch opens on flow) Low water switch (normally closed contacts water tank level, switch opens on low water)	
	OUTPUTS Pump – 230Vac 15A Divertor valve – 230Vac 5A (opens to drop pressure for testing) Fault/fire/low-water volt-free contacts	
Controls & indicators	6 front panel LED indicators for: <ul style="list-style-type: none">• Pump running• Fault (multiple flash codes for different faults)• Fire• Service required• Routine testing in progress• Power - mains power is applied to the unit	
	TEST button – initiates manual pump test RESET button – resets fire mode Other button press combinations are used to configure the system Sounder - alerts when a fault condition is detected or a service is required	
Other features	Internal USB socket for connection of memory sticks for: <ul style="list-style-type: none">• Software updates• Configuration setting updates	

All dimensions are approximate

Specification subject to change without notice.

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For additional resources and technical support, please visit www.firesprinklerwatchdog.com or scan the QRcode:



Martech recommends GRUNDFOS pumps