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Fire Sprinkler Pump Watchdog-PLUS

The Martech Sprinkler Pump Watchdog-PLUS builds on the original watchdog concept with new features to help simplify sprinkler system installation. Watchdog-PLUS includes the following key features:

- Automatic periodic pump test
- Check for pump failure
- Routine maintenance reminder
- Integration of sprinkler system controls
- Input for pressure and flow sensors
- Input for Fire Alarm signal
- Relay outputs for fault, flow or water level and alarm
- Single phase or 3 phase options

During normal operation the Watchdog-PLUS automatically runs the pump periodically (typically every week) and measures key parameters to check the pump's performance and health helping to ensure the fire sprinkler system is fully operational when it matters.

LED indicators on the Watchdog-PLUS front panel illuminate to show the status of the system including

- Power (mains power connected)
- Pump active (running)
- Fault detected
- Service required
- Alarm (triggered by external fire alarm).

In addition an internal sounder provides an audible alert to alarm and fault conditions.

A single push button on the front panel allows the pump to be manually tested at any time, and also allows the internal timer to be reset to perform the automatic periodic test on that day and time, every week thereafter.

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



Technical specification

Dimensions	Width	180mm
	Height	150mm
	Depth	60mm
Construction	Fire resistant ABS to UL 94V, IP65 rated	
Safety	CE compliant	
Power	230Vac, 10Amps maximum pump current (Watchdog standby <5Watts) Internal battery backup for clock/timer – standard AAA cell <i>Requires installation by a qualified electrician</i> 3 phase option also available	

Inputs and outputs		Output Relays					Note
		Fault	Low Water	Alarm	Pump	Spare output	
Inputs	Pressure switch (low pressure)	*			✓	§	Primary input to detect if sprinkler head activated.
	Low water level <u>or</u> flow switch	*	✓		✓	§	60 second delay before activation
	Fire Alarm	*		✓		§	Sounder also on
	Spare Input	§	§	§	§		Custom response

✓ = active when input conditions met, * = active only during fault conditions (see below), § = to be defined
Custom logic combinations for fault, low water and alarm outputs can be created on special request

Controls & indicators	Front panel LED indicators:
	<ul style="list-style-type: none"> Power; on when main power is applied to the unit Fault; on if a fault is detected such as pump not running (fault o/p also becomes active) Pump; on when power is applied to pump (pump should be running) Service; on when the next pump service is due Alarm; on when an external alarm condition in raised (when alarm input active)
	<p>Sounder - sounds to alert when a fault condition is detected, a service is required or for low battery OR when a fire alarm condition is raised on the fire alarm input.</p> <p>Test button – press once to manually test the pump. Press and hold to reset the timer and for other functions - refer to operation manual for full instructions.</p>

	Upon a sprinkler head being activated (drop in water pressure), pump runs to maintain water flow.
Operation	Otherwise, the pump is cycled for 10 seconds every week and key electrical parameters measured to determine the health of the pump including checking for excess current (e.g. the pump is seized or developing a fault) and for low/no current (e.g. the wiring is open circuit, a fuse has blown and pump is not running).
Other features	<p>Battery backed internal clock timer ensures that time and day selected for automatic pump testing is maintained in the event of a power failure</p> <p>Custom front panel with your logo and branding available on orders of 50+ units</p>

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