



Fire Sprinkler Watchdog (FSW) Troubleshooting Guide

13061-04-07-OTH rev01



WARNING! The information provided here is for use by qualified persons only.

OPENING THE CONTROLLER WILL EXPOSE LIVE ELECTRICAL PARTS AND PRESENTS A RISK OF ELECTRIC SHOCK, WHICH MAY RESULT IN INJURY OR DEATH!

ALWAYS ISOLATE THE WATCHDOG FROM THE MAINS POWER SUPPLY BEFORE WORKING ON IT!

FAILURE TO CORRECTLY MAINTAIN THE CONTROLLER MAY RESULT IN THE FIRE SPRINKLER SYSTEM NOT OPERATING IN THE EVENT OF A FIRE.

PLEASE CONTACT THE ORIGINAL SPRINKLER SYSTEM INSTALLER OR A QUALIFIED ELECTRICIAN TO CARRY OUT ALL SERVICING AND MAINTENANCE OF THIS UNIT.

CodaOctopus Martech Ltd. accepts no responsibility for injury, death, incorrect operation or otherwise that results from servicing by unqualified persons. Martech is unable to service your installed system.

For details of sprinkler system installers please visit <https://www.bafsa.org.uk/find/>

Common Faults and Problems:

- 1. Unit beeps every 10 seconds, NO LEDs are illuminated**
Mains power is not connected - check the power supply, fuse and wiring etc.
- 2. Orange 'Service' LED is ON constantly**
Annual service of the complete sprinkler system is required (recommended to replace batteries also). Contact a reputable sprinkler installer to arrange servicing of the complete sprinkler system. To silence the alarm, ISOLATE FROM MAINS POWER. Replace batteries. Briefly press the internal SERVICE pushbutton, reinstate power (*please see the diagram overleaf for the location of the service pushbutton*)
- 3. Orange 'Service' LED flashing every 2 seconds**
Internal batteries need replacing. This should be done at every annual service. Use good quality AA Alkaline batteries. To silence the alarm, ISOLATE FROM MAINS POWER. Replace batteries. Briefly press the internal SERVICE pushbutton, reinstate power (*please see the diagram overleaf for the location of the service pushbutton*)



4. Red 'Fault' LED is flashing every 2 seconds indicating pump under current

Check that pump operates correctly when front panel "Test" button is pressed. If pump under current is detected it will stop running after 2 seconds otherwise it will run for 10 seconds. If pump does not operate correctly check wiring as this fault may indicate that the pump is not correctly connected.

Check that the pump current learning procedure has been carried out in accordance with the setting up procedure in the manual. This can only be done with mains power applied and with the system at pressure. If a current clamp meter is available, use it to measure the pump current. Ensure that the current is correct for the pump at pressure and consistent each time a test is carried out.

5. Pump does not run when front panel 'Test' button is pressed

Check green Power LED is ON. If it is not check the mains input wiring.

Check that blue 'Pump' LED is ON following 'test' button being pressed. If it is not then the FSW is faulty. Check that the electrical wiring between FSW and pump is in accordance with the manual. There should be a direct connection from the FSW switched live terminal to the pump bypassing the pressure switch.

6. Pump does not run at expected time for weekly test

Check that weekly test time has been set in accordance with the manual.

7. Red 'Fault' LED is flashing every second indicating pump over current

Check that pump operates correctly when "Test" button is pressed. If pump over current is detected it will stop running after 2 seconds otherwise it will run for 10 seconds. A pump over current fault may indicate a faulty/failing or worn pump. Check that pump current learning procedure has been carried out in accordance with the setting up procedure in the manual. This can only be done with mains power applied and with the system at pressure. If a current clamp meter is available, use it to measure the pump current. Ensure that the current is correct for the pump at pressure and consistent each time a test is carried out.

8. Power Fail alarm not activating

The loss of mains input power is only detected at the time of a pump test which will also will cause a pump under current alarm condition.

9. Auto Dialler Alarm Contacts not activating

The alarm contact is active for only 3 seconds following one of the fault conditions given in the manual. An auto dialler must be selected that is suitable to operate with this trigger pulse.

