16.0 Fault Finding Checklist(s)

Fault event	Fault Detected and Remedy
SERVICE LED flashing every 10 seconds	Batteries need replacing. Replace battery's.
Internal buzzer sounding for 1 second at weekly test time	Refer to Service mode section 7.1 to reset
SERVICE LED Flashing every 5 seconds	12 month service required
	Arrange for Service and Annual Test
	Refer to Service mode section 7.1 to reset
SERVICE LED flashing every 1.5 seconds	Pump failed healthy test – Low current
Internal buzzer sounding every 30 mins	Outside of FLC – 30%, Service Pump
Digital output DO1 changed over	Refer to Service mode section 7.1 to reset
SERVICE LED flashing every 1 seconds	Pump failed healthy test – High current
Internal buzzer sounding every 30 mins	Outside of FLC + 30%, Replace/Service Pump
Digital output DO1 changed over	Refer to Service mode section 7.1 to reset
FAULT LED flashing every 2 seconds	Fire Mode Active
Digital output DO1 changed over	Restore system pressure and press Test/Reset
	button on the controller.
FAULT LED flashing every 1 seconds	Pump failed health test – Excess current
Internal buzzer sounding every 30 minutes	Refer to Service mode section 7.1 to reset
Digital output DO1 changed over	
FAULT LED Flashing every 1.5 seconds	Pump Failed health test – Pump fuse blown or
Internal buzzer sounding every 30 minutes	pump fault. No current (< 1amp).
Digital output DO1 changed over	Replace fuse/repair pump
	Refer to Service mode section 7.1 to reset
FAULT LED Flashing every 10 seconds	Exceeded 10 Pump starts in a 7 day period
Digital output DO1 changed over	System leak detected, fix leak.
	Refer to Service mode section 7.1 to reset
FAULT LED Flashing every 15 seconds	Low water level detected in tank
Digital output D02 changed over after 60 second hold off	Check water tank, top up tank.
POWER LED off	Mains Power failure or Controller fuse failure
Internal buzzer sounding every 30 minutes	(> 2 Hours without mains power)
Digital output DO1 changed over	Restore Mains Power
	Refer to Service mode section 7.1 to reset
Alarm! LED ON	Flow switch activated, Sprinkler head activated.
Internal buzzer sounding constantly	Restore system pressure and press Test/Reset
Digital output D03 changed over	button on controller

The Digital outputs (D01/D02/D03) represent the following faults:

Digital	Fault detected
Output	
D01	Fault detected by the controller refer to the checklist above. LED coding will describe fault found.
D02	Low water low level device (level switch in breaktank) has been activated.
D03	Fire Alarm device (system flow switch) has been activated.

System Operation problems can be diagnosed from the following checklist:

Fault	Possible cause(s)	Corrective Action(s)
Pump does not run when	1) No electrical supply to	A) Check power LED ON on controller
"Test/Rest" button is	Pump/FireSAFE at home	front.
pressed for 3 seconds	control panel.	B) Check Fault LED, refer to above
	2) Pump fuse blown.	coding table.
	3) Controller fuse blown.	C) Check electrical supply to pump
	4) Faulty Controller.	D) Contact your system
	5) Power wiring to pump.	supplier/Grundfos Service for
		remedial action.
Pump does not reach the	1) Not enough water getting to	a) Check suction isolating valve is
duty point but continues	the pump.	fully open.
to run.	2) Air trapped in pump and or	b) Bleed air from system and
	system.	pump.
	3) Small demand from system or	c) Check system for demand/leak.
	leak.	d) Contact your system
		supplier/Grundfos Service for
		remedial action.
Pump does not reach the	1) Pressure switch setting too	a) Check settings of the pressure
duty point while running	low	switch are not too low.
and shuts off.	2) Pressure switch fault.	b) Replace pressure switch
	3) Wrong FireSAFE at home unit	c) Check unit is suitable for duty
	specified/delivered	point required.
	-	d) Contact your system
		supplier/Grundfos Service for
		remedial action.
Pump delivers correct	1) Pressure switch setting too	a) Check settings of the pressure
pressure, but does not	high	switch are not too high.
stop with no demand.	2) Pressure switch fault.	b) Replace pressure switch.
	Demand from system/leak	c) Inspect system.
	4) Pressure vessel settings (if	d) Check vessel pre-set pressure.
	used)	 e) Contact your system supplier/Grundfos Service for
		remedial action.
Fire mode engaged, pump	1) Leak in system great enough	a) Find and fix leak.
on but no sprinkler head	to cause pressure drop and	
activated.	engage fire mode.	