Flowsafe Alarm Datasheet/Manual

For sewerage & wastewater systems

The Flowsafe is an innovative automated alarm and water supply shut-off system designed to prevent water damage to your property. With its advanced water switch-off valve function, the Flowsafe ensures that your property remains safe and protected from water damage at all times.

One of the most notable features of the Flowsafe is its backup battery, which enables the system to operate even during power outages. With a run time of up to 72 hours, the Flowsafe ensures that your property remains protected, even when the power is out. Additionally, the Flowsafe comes equipped with an audio and visual alarm alert, which notifies you immediately when water flow is detected.

The system also features a volt-free relay that is activated when the alarm is active, ensuring that the water supply is immediately shut off. The Flowsafe also includes an auxiliary 12Vdc output, allowing you to connect to external circuitry such as a beacon. Furthermore, the Flowsafe includes a test button, allowing you to easily check the alarm functions to ensure that it is functioning correctly.

Specification

	Rating
Enclosure	
IP rating	IP65 rated
Dimensions	230x120x100mm
Weight	0.7kg
Supply Voltage	
240V variant	110V-240Vac [50/60Hz]
24V Variant	12-24Vac/dc [50/60Hz]
Fusing	250mA [Internal 240V]
	3A [Internal 24V]
Switched Input	
Max cable length	200m
Switched voltage	5Vdc
Max switched current	10mA
Audio Output	
Max sound level	105dB
Visual Alarm Output	Red flashing LED
Output Relay	
Relay topology	SPDT [COM/NO/NC]
Max current	10A @250Vac
Max Voltage	250Vac
Auxiliary Output	
Voltage	12Vdc
Max Current	250mA [3W]
Terminal Capacity	0.2-4mm^2 [tool free wire fitting]
Ambient Temperature	-10°C to +55°C
Backup Battery	72 hours max run time
Water switch-off valve	15mm or 22mm available

Designed & Manufactured in the UK

Key Features

- Incoming water switch-off valve
- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65 rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- Volt free relay contact output SPDT
- Easy installation no tool required WAGO wiring terminals
- Backup battery with up to 72 hours run time

INSTALLATION WARNINGS

- When the cover of the product is removed, ensure the supply is isolated.
- Take extra care when connecting stranded cables to the connectors. Avoid lengthy uninsulated cable and ensure there are no loose cable strands
- Do not install this product where the audio alert from the alarm will be impeded. Please note the environment the product is situated will affect the audio & visual alert.
- If the battery is damaged in any way replace it immediately.

Internal Features

18650 Li-ion Backup Battery — The battery is supplied unfitted and must be fitted during installation

Aux output for accessories — Output activated by the alarm

12Vdc 250mA

Alarm Active OPEN/CLOSED Option [See Wiring Examples Below]

Alarm ACTIVE

Alarm ACTIVE Input Open Circuit

Alarm ACTIVE Input Closed Circuit

Alarm Output Relay [Volt Free Output] 10A 240V max

Alarm INACTIVE | Alarm ACTIVE

NO | NC | COM — ALARM 1 OUTPUT RELAY

Connection for the Flowsafe valve
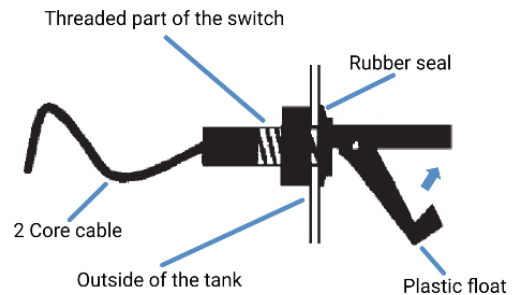
A | B

A | B

250mA Fuse

90-240Vac 50/60Hz WAGO easy install connector

Alarm Input [See Wiring Examples Below]

Typical Installation

PTL1A WITH SIDE-MOUNTED FLOAT

1. Drill a hole in the side of the tank at the high level i.e. above the "switch-on" level of the pump float.

2. Thread the rubber seal over the cable and pass the cable through the side of the unit from the inside outwards.

3. Thread the lock nut over the cable and secure it in place. Do not overtighten the lock nut.

4. Ensure that the inflow of water to the tank is not directed onto the float.

5. Attach the 2-core cable to the terminals marked "ALARM INPUT 1" in the High-Level Alarm unit.

Threaded part of the switch

Rubber seal

2 Core cable

Outside of the tank

Plastic float

CONNECTING THE SWITCH-OFF VALVE

1. Connect the valve to the flowsafe terminals marked [A, B and EARTH]

2. Once installed check the alarm and valve operate correctly by pressing the TEST button

   NOTE: When the alarm is active for over 5s the flowsafe valve will shut off the water supply. When the alarm is deactivated for over 25s the flowsafe valve will re-open the water supply.