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High-Level Alarm Datasheet/Manual

For sewerage & wastewater systems

The alarm has a built-in backup battery for the event of a power outage. The alarm operates from a switched input, such as a float switch or pressure switch. The alarm can be activated either by a closed circuit switched input or an open circuit switched input.

The alarm is designed for connection to 240Vac supply voltages.

Once activated, the alarm provides a visual and audio indicator. There is an option to connect an external beacon or other circuitry via the auxiliary output and/or the volt free relay output.

The volt-free relay allows the alarm to be connected to a Building Management System with ease.

A mute button allows the operator silence the audio alarm of the unit without affecting the visual, auxiliary output or volt free relay output of the alarm.

A test button conveniently allows the operator to check the alarm functions without the need of triggering the input to the alarm.

Power to the alarm is indicated via a blue constant light, allowing easy operational inspection of the unit. In the event of a power outage, the alarm will still operate for up to 72 hours and the power indicator will flash red.

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

Designed & Manufactured in the UK

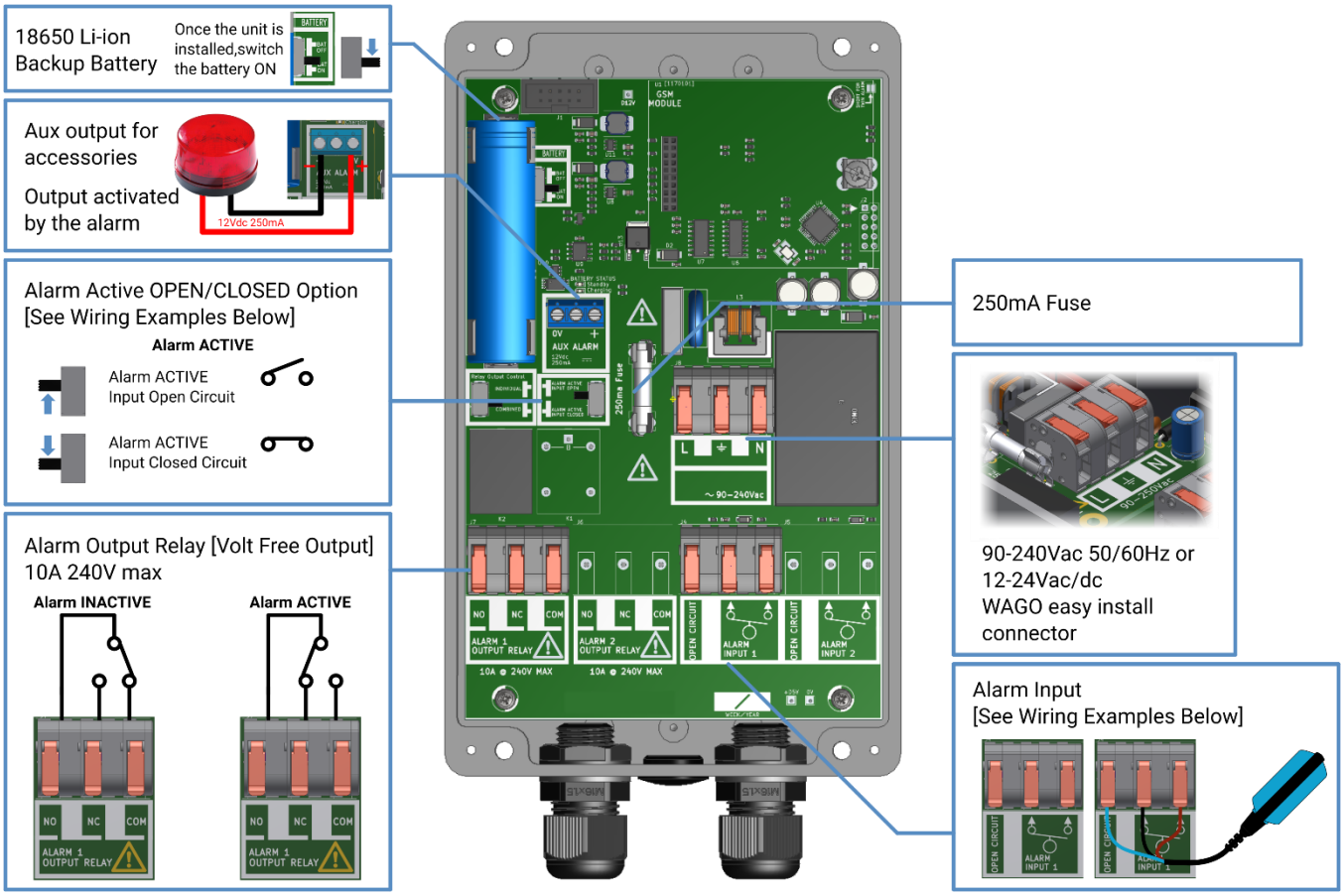
Key Features

- 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.

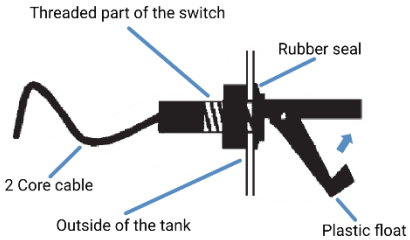
Internal Features



Typical Installation

PTL1A WITH SIDE-MOUNTED FLOAT

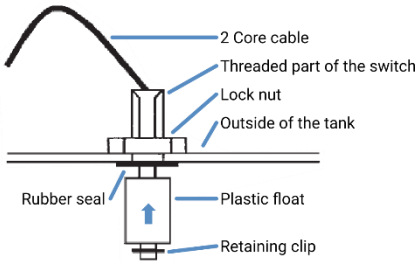
1. Drill a hole in the side of the tank at the high level i.e. above the "switch-on" level of the pump float.



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.

PTL1B WITH TOP-MOUNTED FLOAT

1. Drill a clearance hole in the lid, at the indent point provided, under the end cover.
2. Thread the rubber seal over the cable and pass the cable through the lid from the underside.
3. Thread the lock nut over the cable and secure the switch in place. Do not overtighten the lock nut.
4. Attach the 2-core cable to the terminals marked "ALARM INPUT 1" in the High-Level Alarm unit.



PTL1C WITH 10MTR ORANGE FLOAT

1. A float and weight are provided to activate the High-Level Alarm.
2. We recommend that the float is securely attached to the discharge pipework at a higher level than the activation level of the automatic float switch of the pump.
3. Attach the high-level float so that it will not be fouled by the pipework etc. "ALARM INPUT 1" in the High-Level Alarm unit.