GSM

User manual

VA Alarm GT-130 v2
installation guide

VA-ALARM
- High Level Alarm
- Built-in Buzzer
- Battery Operated
- 230VAC Operated
- Relay Output

CLASS II:
Input Voltage: 100-240VAC, 50Hz

Functional Description

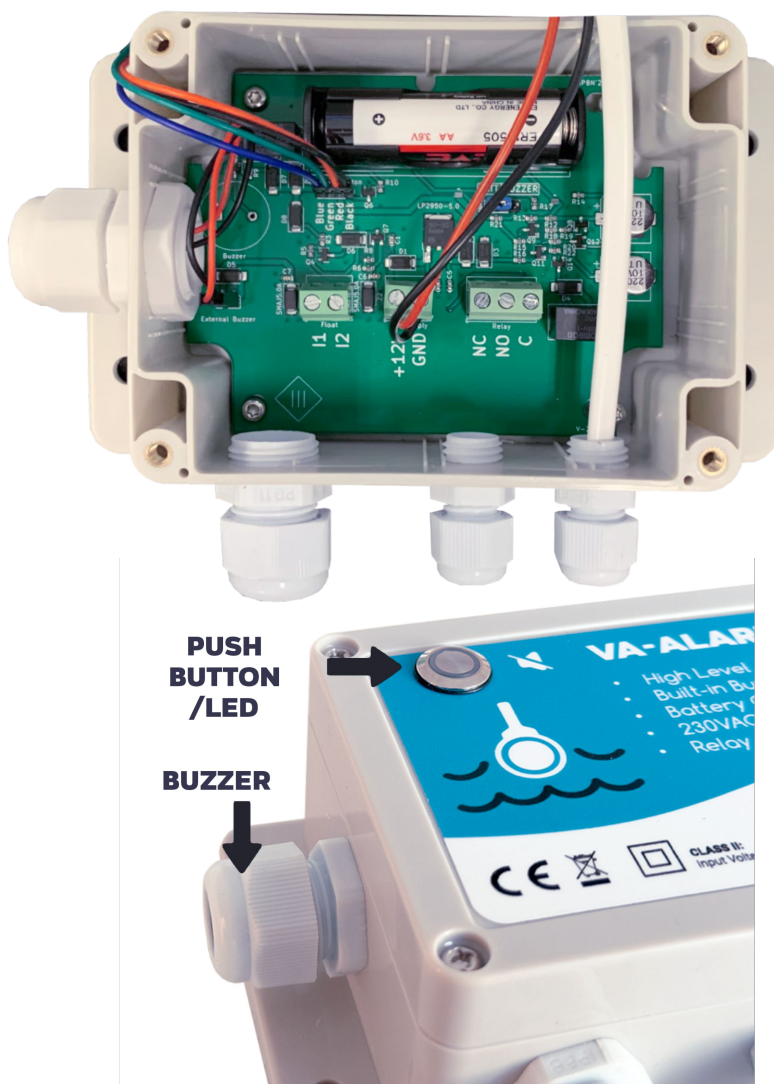This VA alarm is a full tank alarm for installation in:

- Pump wells
- Holding tanks
- Sedimentation tanks with pumps

The VA alarm provides a clear alarm signal when the water level in the tank is too high or in the event of pump failure, indicating that the water is not being moved as it should. The alarm ensures the emptying of the tank or warning of pump failure before drain pipes to toilets, showers, and other installations become filled with wastewater. The VA alarm has a built-in battery backup that emits an alarm signal during power outages. There is an output for connecting to a CTS system or GSM alarm.

The alarm's push button with an integrated LED flashes red every second and sounds in case of a fault in the tank/well. When an alarm occurs, the sound can be muted with a single press of the alarm's push button. The red light will continue to flash until the float switch in the tank/well is reset. In the event of an alarm in holding tanks, the tank should be emptied. The alarm is CE marked.

Product Overview

- The VA alarm consists of:
- Alarm box with push button/LED and built-in 230 VAC power supply with cord and plug.
- Float switch with a 3.6V lithium battery.
- 75 dB buzzer

PUSH BUTTON /LED

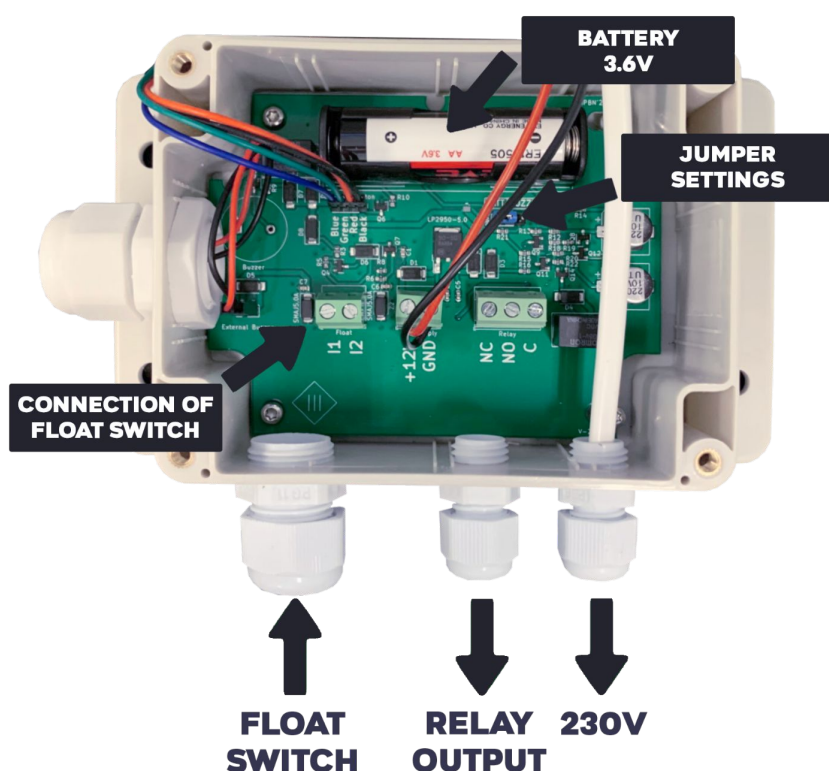BUZZER

VA-ALARM

Safety Measures / Important to Know

- The alarm box must only be installed indoors in dry environments. It must not be placed inside the tank/well.
- Using a 5-core cable for the float switch and possibly the pump is not recommended, as electrical interference could cause malfunctions in the VA alarm.
- The VA alarm may only be used to indicate high water levels in drainage tanks or water tanks (holding tanks, sedimentation tanks, pump wells). MUST NOT be used in oil- or gasoline-contaminated water.
- If the tank is buried, ensure easy access to the float switch located in the tank/well through a manhole to avoid costly excavation for any future replacement of the float switch.
- The alarm and the battery must be disposed of as electronic waste.

Installation

For pump wells, the float switch cable is installed along the pipe route and secured with cable ties, ensuring it hangs stably in the pump well.

Before connecting the float switch to the alarm box's terminal strip, mount the weight on the float switch's cable. The weight ensures that the float switch hangs stably in the tank. Please mount the weight on the cable at a distance where the float switch can still freely tilt up and down but remains stable in the tank. It is essential that the float switch can tilt up and down in the tank in the event of rising water levels.

Connections and settings in the alarm box:

Jumper settings:
BATT = The alarm does NOT beep during power failure

BUZZER = The alarm beeps during power failure.

The float switch is connected to terminal I1 (black wire) and I2 (brown wire).
The blue wire is not used.
The jumper should normally be set to "BUZZER", so it sounds during a power failure. If set to "BATT", it will not sound during a power failure and is therefore intended for pure battery operation, but then you will not be notified when the battery needs to be replaced.
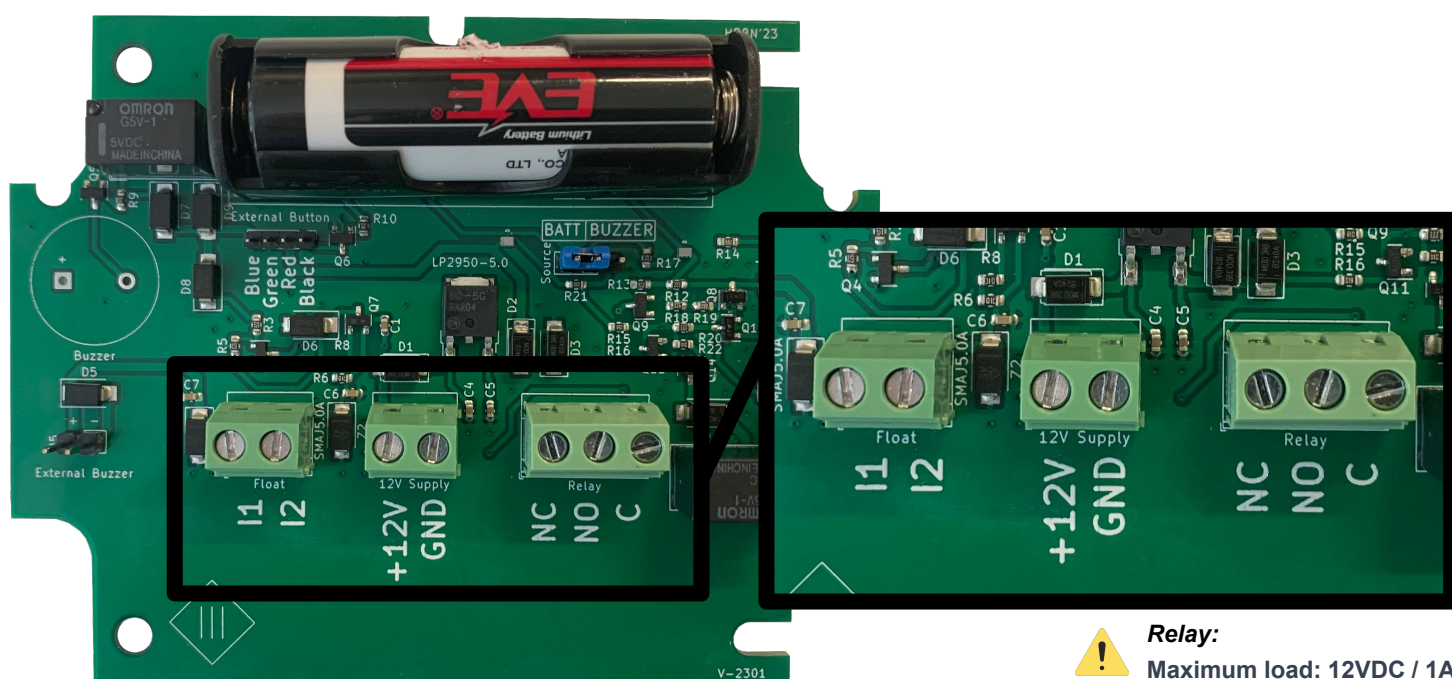
Therefore, it is recommended to set the jumper to "BUZZER".
The relay output can be used, for example, for connecting to a CTS or GSM alarm.

The relay output is potential-free, which makes it possible to connect, for example, an additional external sounder if a louder alarm sound is desired elsewhere.
Maximum load: 12VDC / 1A

Connection Guide:

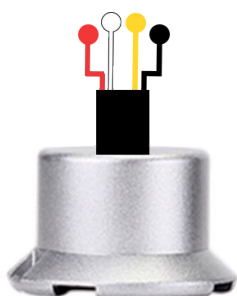⚠️ *Relay:*
Maximum load: 12VDC / 1A

Water sensor for floor

White (NO) = I1

Yellow (C) = I2

Brown = GND

Red = +12V

Float switch 5 meters blue
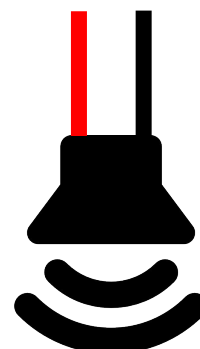
Black (C) = I1

Brown (NO) = I2

12V Speaker

Red = +12V

Black = C

Jump wire NO to GND.

Daily Use and Explanation of Light and Sound Signals

The VA alarm is recommended to be installed with 230V connected, battery inserted, and jumper set to the "BUZZER" position.

Under these conditions, the following applies if there is no alarm:

There will be no sound and no flashing from it.

Press the button, and it will sound and light up as a sign that everything is in order.

The alarms are explained as follows:

If the alarm is triggered due to the float switch alarm (I1 and I2 are short-circuited), or if the power connection is interrupted, you can "mute" the sound by pressing the button. The light will continue to flash until the float switch is reset in the case of a float switch alarm or until power is restored if there is a power connection interruption.

LED lamp in the button	SOUND from built-in buzzer	Explanation
Flashes every 1 second	Alarm every 1 second	Level alarm (I1 + I2 are short-circuited)
Flashes every 2 seconds	Alarm every 2 second	230V power connection interrupted
Flashes every 1 second	None	The button has been pressed during the short-circuited level alarm, and the float switch still indicates an alarm, meaning it is short-circuited
Flashes every 2 seconds	None	The button has been pressed during a power connection interruption, but the power has not returned

Technical Specifications:

Dimensions of alarm box:	155 mm x 55 mm x 90 mm
Dimensions of float switch:	Ø100 mm x 50 mm + 5 m cable Ø8 mm
Temperature range:	0 - 50°C (in operation)
In storage:	-25 - 50°C
Weight of alarm box:	395g
Weight of float switch:	985g
Cable length of float switch:	5m
Length of 230VAC cable:	1.8m
Protection class:	IP65
Battery:	3.6V Lithium AA type ER14505
Power supply:	230VAC 50/60Hz - 12VDC 6W
Power consumption:	Max. 8W
Relay:	Potential-free NC/NO **IMPORTANT:** max. load 12VDC/1A. ⚠️
Warranty:	24 months
Service Check:	Every 12 months
Certification:	CE marked

For danish version:
https://issuu.com/gsmteknik/docs/va-alarm_vejledning

Support and inquiries:

Company:	GSM Teknik ApS
Phone:	+45 52 62 52 00
E-mail:	support@gsmteknik.dk
Website:	www.gsmteknik.dk