

LR30-DUAL Datasheet

Description

The LR30-DUAL is an LR30 alarm with built built-in battery and two alarm inputs. 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.

Depending on the model, the LR30-DUAL is available for 110-240Vac supply voltages or 12-24Vac/dc 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.

A mute button allows the operator to 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.

Typical uses for this alarm are high or low-level warnings in water treatment tanks.



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 x 2	
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 x 2	
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

Contact

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Designed & Manufactured in the UK

Key Features

- 2 Alarm Inputs each with an alarm tripped indicator
- 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
- Easily upgradable GSM module port
- Configurable for ACTIVE open or ACTIVE closed alarm input
- Easy installation no tool required WAGO wiring terminals
- Backup battery with up to 72 hours of run time
- Built-in GSM display for GSM upgrade module

Accessories

- LRAC-A003 12Vdc IP65 Flashing Red Beacon
- Works with all Triton Controls float switches i.e., LR03-L10M-CPE
- LR30 GSM upgrade module

Internal Features

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

GSM module upgrade port
[fitted for GSM variant]

Aux output for accessories
Output activated by the alarm
12Vdc-250mA

250mA [240V] or 3A [24V] 20mm Line in fuse

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

Alarm ACTIVE

Alarm ACTIVE Input Open Circuit

Alarm ACTIVE Input Closed Circuit

90-240Vac 50/60Hz or 12-24Vac/dc WAGO easy install connector

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

Alarm INACTIVE

Alarm ACTIVE

Alarm Inputs
[See Wiring Examples Below]

Output relays combined or individual for each alarm option switch

Typical Installation

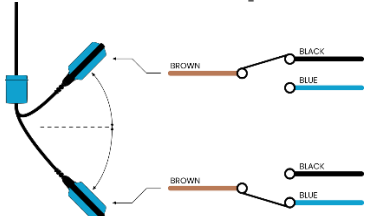
Alarm Active OPEN Circuit Option [Recommended]

See [Float Switch Operation]

Alarm Active CLOSED Circuit Option

See [Float Switch Operation]

Float Switch Operation



NOTE: The float switch must be tethered or weighted to operate correctly

NOTE 2: None Triton Controls Float switches may be wired differently

LR30 Full Range

	Description
LR30 BASIC	Basic alarm
LR30 BASIC GSM	Basic alarm with GSM module fitted
LR30 BATTERY [240]	Backup battery alarm 110-240Vac
LR30 BATTERY [24]	Backup battery alarm 12-24Vac/dc
LR30 BATTERY [240] GSM	Backup batt' alarm 110-240Vac GSM
LR30 BATTERY [24] GSM	Backup batt' alarm 12-24Vac/dc GSM

INSTALLATION WARNINGS

- When the cover of the product is removed, ensure the supply is isolated.
- Take extra care when connecting stranded cables into 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 immediately.