



LR31 – Basic Pump Control Panel Quick Start Guide

en-GB

Warnings & Safety Instructions

This product conforms to current safety requirements. Inappropriate use can lead to personal injury, injury to others and damage to property. Please read the following operating & installation instructions before installing this product.

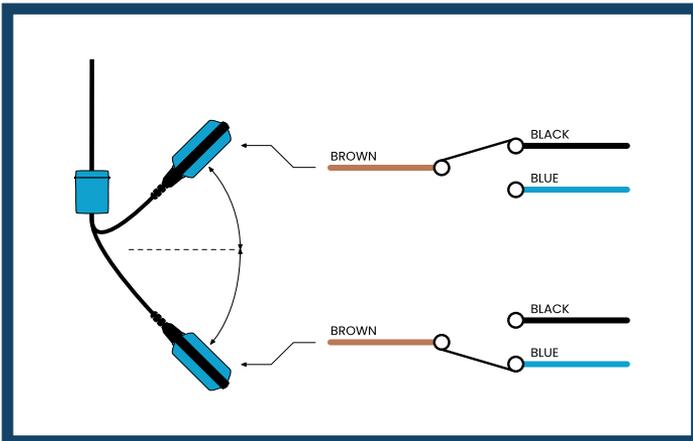
The following document contains important information on the safety, installation, use and maintenance of the product. This information will prevent hazards arising. Keep this document in a safe place for further use.

▶ When the cover of the product is removed, ensure that the incoming external voltage source is isolated/removed.

▶ Take extra care when connecting wires to the terminal blocks in the product. Avoid lengthy insulated cable and ensure that there are no loose cable strands. It is advised to terminate stranded cables with ferrules.

▶ Installation of this product should be carried out by a competent person.

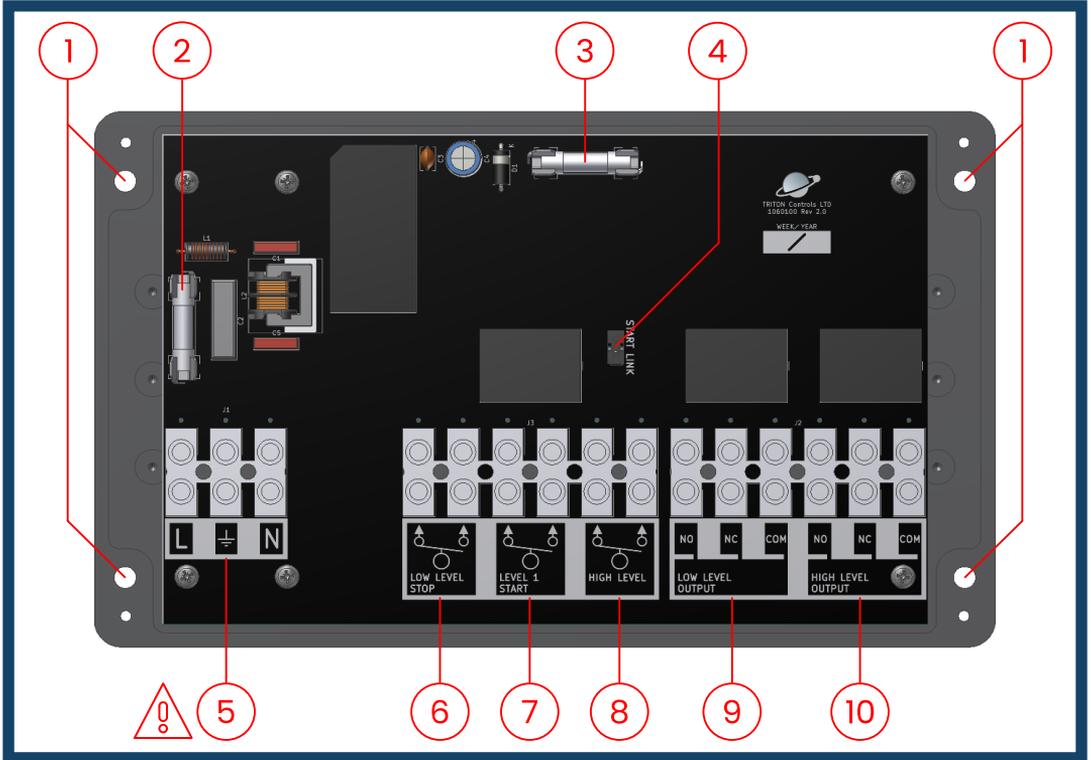
Float Switch Operation



NOTE: To successfully install a float switch, ensure that the float switch is tethered or weighted unless it is internally weighted.

Check the float switch manufacturers requirements before installing to the pump controller.

Product Features



① Screw mounting holes for easy wall installation

② 250mA mains input fuse

③ 1A output protection fuse

④ Optional START link - fitting the jumper to the START link will short circuit the START float switch input, allowing for single float switch operation.

⑤ Mains input terminal

▶ WARNING Isolate the input mains before installation.

⑥ STOP float switch input terminal

⑦ START float switch input terminal

⑧ HIGH LEVEL float switch input terminal

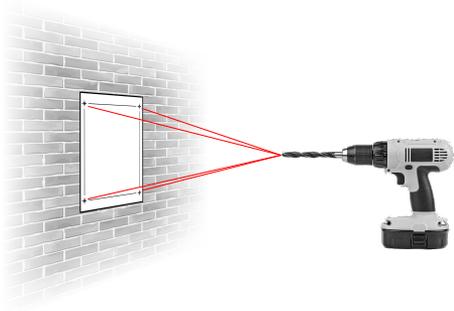
⑨ LOW LEVEL (pump output) output terminal

⑩ HIGH LEVEL output terminal

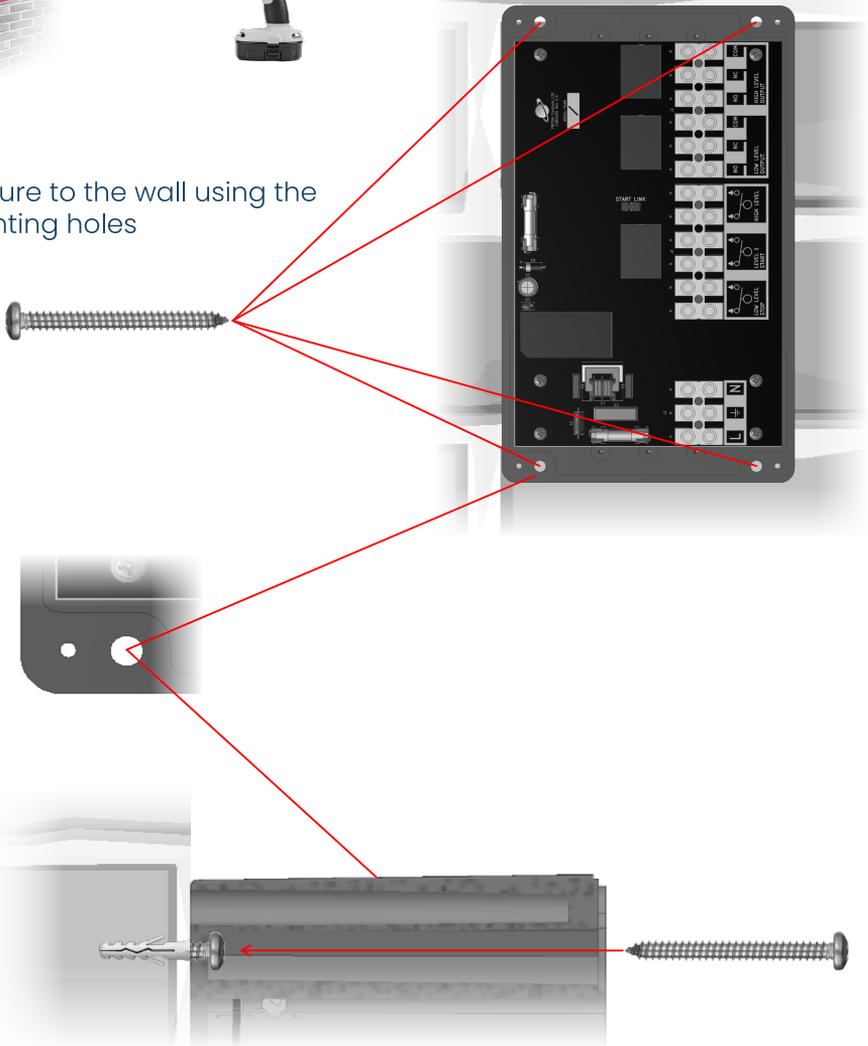


Wall Installation

Align the drill template and drill the holes indicated (Part Number: 1061401)



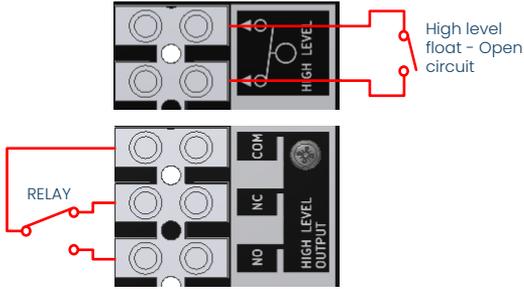
Fix the enclosure to the wall using the internal mounting holes



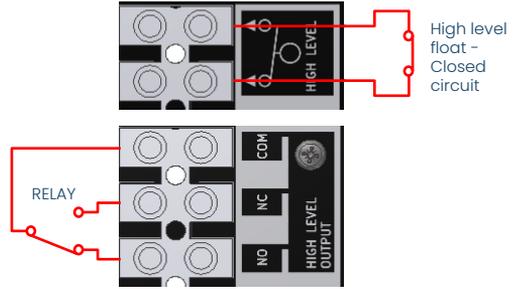
Controller Operation

High Level Operation

INACTIVE:



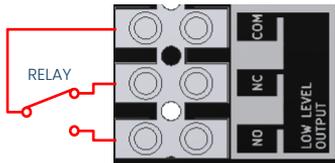
ACTIVE



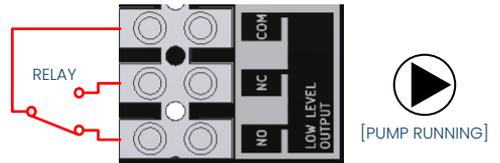
Relay Output Specification:
 16Amax resistive load
 10Amax inductive load
 (at 250Vac)

Pump Control Operation

INACTIVE:



ACTIVE

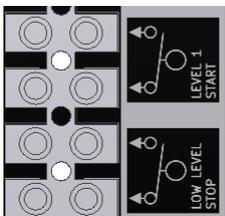


Relay Output Specification:
 16Amax resistive load
 10Amax inductive load
 (at 250Vac)



Fig 1

START LINK FUNCTIONALITY



The START link, as shown in Fig 1, shorts out the START input terminal. Shorting out the START input terminal allows for single float operation of the pump controller.

INPUT OUTPUT SEQUENCE - TWO FLOAT SWITCHES

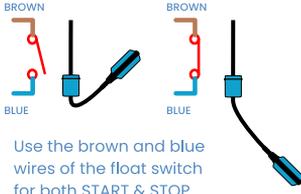
Sequence Number	STOP SWITCH	START SWITCH	LOW OUTPUT [pump output]
1			PUMP OFF
2			PUMP OFF
3			PUMP ON 
4			PUMP ON 
5			PUMP OFF

INPUT OUTPUT SEQUENCE - SINGLE FLOAT SWITCH (START link fitted)

Sequence Number	STOP SWITCH	START SWITCH	LOW OUTPUT [pump output]
1			PUMP OFF
2			PUMP ON 
3			PUMP OFF

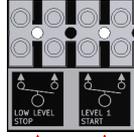
Application Examples

2 Switch Filling:

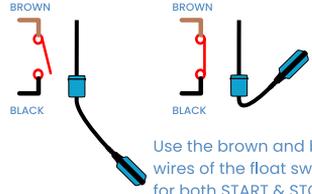


Use the brown and blue wires of the float switch for both START & STOP

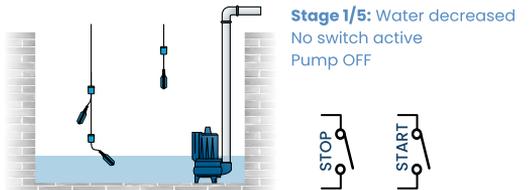
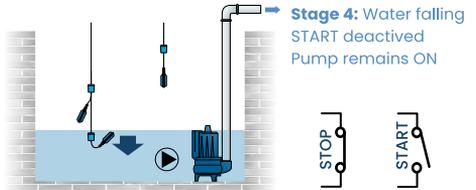
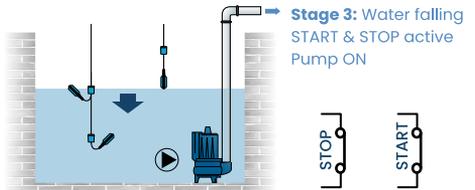
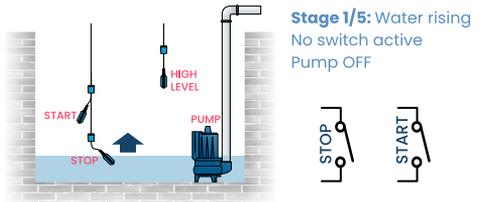
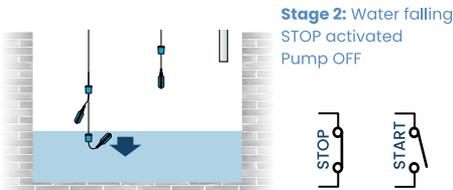
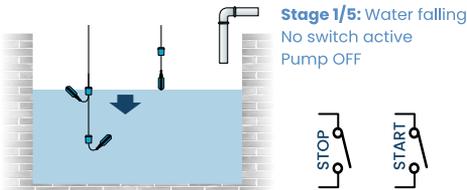
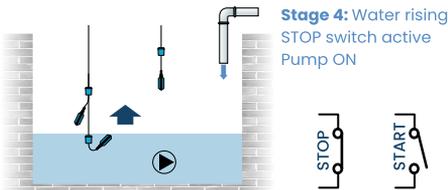
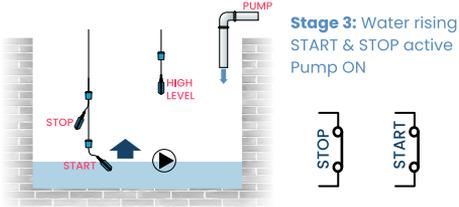
2 Switch Emptying:



NOTE: See float switch operation on page 1



Use the brown and black wires of the float switch for both START & STOP



Specification

Supply voltage	110Vac to 230Vac 50/60Hz
Supply voltage wiring size	4.0mm ²
Pump current range	10A (inductive load)
Input & output wiring size	4.0mm ²
Float switch supply voltage	5Vdc
IP rating	IP65
Size	200mm x 120mm x 90mm
Temperature	-10°C to +55°C
Cable gland configuration	M16

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