TYPE P2BPAL AUTOMATIC CONTROL BOX

D.O.L. Starters for 0.5-2.0HP Single Phase Pumps

For dirty water and sewage applications.

Designed for the control and running of 230V single phase pumps, offering protection against dry running and motor overload. Suitable for submersible pumps with motor sizes up to a nominal 2HP (1.5kW).

MODEL	AMPS MIN/MAX (Ranges)	DIM. CM H x W x D	WEIGHT KG
P2BPAL	2.5/13.0 2.5-4 / 4-6 / 5.5-8 7-10 / 9-13	40 x 30 x 18	11.0

OPERATION

In operation, the level control system utilises float switches operating on 24Vac. Normally three float switches are required; one upper (high level alarm), one middle (start) and one lower (stop).

TYPICAL SUMP EMPTYING APPLICATION

When the sump liquid level rises, it triggers the middle or 'start' float switch. As the liquid level falls to the set point, it triggers the lower float switch, turning the pump off. If for any reason the pump does not start and/or the liquid level rises to the top float switch, the audible alarm is triggered and the alarm indicator light on the panel is illuminated.

As a guide, it is recommended that the pump cycle should not be repeated more than 6 times per hour. In a filling application, the cycle is simply reversed.

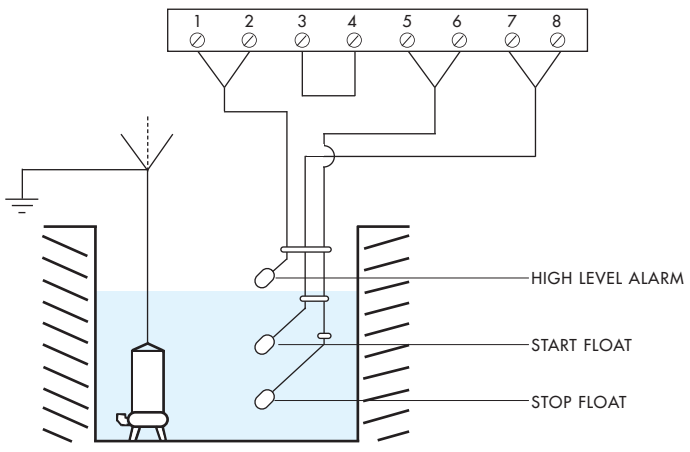
FEATURES

BOX: Sheet steel box with double hinge to left hand side and key lock to right hand side. 4 x wall brackets. IP55 enclosure.

LID: Amber Light = Mains supply.
Green Light = Pump running.
Upper Red Light = High level alarm.
Lower Red Light = Thermal cut-out.
Door Interlocking Isolator: Isolates the power supply when lid is open.
Hand-Off-Auto Switch.
Audible alarm buzzer.
Alarm on/off switch.

INTERNALS: 30VA Transformer: To reduce 230V supply to 24Vac for level control safety.
Plug-In Relay: For level controls.
Contactor with Overload: Manual setting for pump running Amps. Will stop pump when value is exceeded.
Fuses: Fuse holders with HRC fuses on mains and auxiliary circuits.
Capacitor bay where required.

TYPICAL SUMP EMPTYING APPLICATION



PUMPS

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