

TYPE P2BPTACP AUTOMATIC CONTROL BOX

D.O.L. Starters for 0.5-4.5HP Three Phase Pumps

For dirty water and sewage applications.



FEATURES

BOX: Plastic enclosure with four recessed locking screws to front panel, internally hinged to left hand side. Wall mounting 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 and on/off switch.

24 hour on/off timer switch with 15 minute increments.

INTERNALS: 30VA Transformer: To reduce 400V supply to 24Vac for level control.

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.

Designed for the control and running of 400V three phase pumps with 15 minute increment 24 hour timer switch. Offering protection against dry running and motor overload. Suitable for submersible pumps with motor sizes up to a nominal 13 Amps.

MODEL	AMPS MIN/MAX (Ranges)	DIM. CM H x W x D	WEIGHT KG
P2BPTACP	1.2/13.0 <small>1-1.6 / 1.6-2.5 / 2.5-4 4.6 / 5.58 / 7-10 / 9-13</small>	42 x 31.5 x 16	7.0

OPERATION

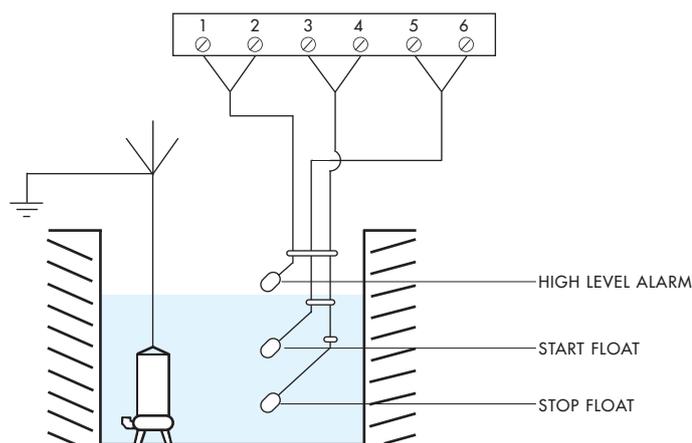
In operation, the level control system utilises float switches operating on 24Vac. Normally three float switches are required; one upper (high level alarm), one middle (start) and one lower (stop). The panel can also operate as a simple ON/OFF device using just one float switch. The 24 hour ON/OFF timer switch operates in 15 minute increments.

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.

TYPICAL SUMP EMPTYING APPLICATION



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