

TYPE P2BPTS AUTOMATIC CONTROL BOX

D.O.L. Starters for 0.4-3.4kW Three Phase Pumps

For clean water wells and boreholes



FEATURES

BOX: Strong thermoplastic box with four captive screws to front panel and double hinge to left hand side. Four back panel mounting eyes. IP55 enclosure.

LID: Amber Light = Mains supply.
Green Light = Pump running.
Left Red Light = Thermal cut-out.
Right Red Light = Level alarm
Door Interlocking Isolator: Isolates the power supply when lid is open.
Hand-Off-Auto Selector Switch.

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

Level control module CL30
Contactor with Overload: Manual setting for pump running Amps. Will stop pump when value is exceeded.
Signal input facility from external switch.
45° Terminal board and cable grommets.
Fuses: Fuse holders with HRC fuses on mains and auxiliary circuits.

Designed for the control and running of 400/3/50 pumps in clean water applications such as boreholes and wells, offering protection against dry running and motor overload. Covering pump motor sizes up to a nominal 13 Amps.

MODEL	AMPS MIN/MAX (Ranges)	DIM. CM H x W x D	WEIGHT KG
P2 BPTS	1.6/13.0 1.6-2.5 / 2.5-4 / 4-6 / 5.5-8 / 7-10 / 9-13	34 x 23 x 16	4.4

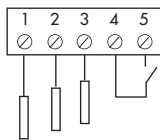
OPERATION

In operation, the level control system utilises conductance probes (electrodes) operating on 24Vac. Up to three probes can be used depending on system requirements. The device can detect the number of probes installed.

PROBES

Level probes are supplied with a choice of 10, 25, 35, 55 or 100m PVC cables. Probe Diameter: 20mm, Length: 100mm

TERMINALS AND TYPICAL APPLICATION EXAMPLES



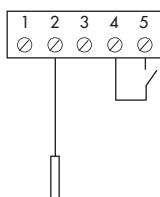
Terminals:

1 = Common Probe. It is strongly recommended that wherever possible, the pump itself is earthed. However, in exceptional circumstances, it is possible to use probe 1 as the earth.

2 = Minimum Level Probe

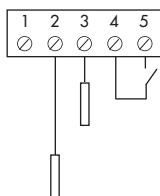
3 = Maximum Level Probe

4-5 = Connection terminals for pressure switch or water level float switch.



1 Probe - Automatic running of the pump in Timer

When the liquid level drops lower than the probe (2), the pump is stopped. Every 10 minutes the device checks to see if the level has risen, and if so, the pump is started.



2 Probes - Level Control

When the liquid level drops below the minimum level probe (2) the pump is stopped. When the liquid level covers the upper probe (3) the pump starts.

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