TYPE P2BPTA2BBALKO AUTOMATIC CONTROL BOX

Twin Pump Alternating Duty/Assist or /Standby - 3 Phase

For dirty water and sewage applications.

Designed for the control and running of two 400V three phase dirty water/sewage pumps, offering protection against dry running, motor overload and water in oil. Suitable for submersible pumps with motor sizes up to a nominal 50 Amps.

MODEL	AMPS MIN/MAX (Ranges)	DIM. CM H x W x D	WEIGHT KG
P2BPTA2BBALKO	23-50 (23-32/30-40/37-50)	70 x 50 x 30	32.0

Note: *Overload ranges selected to suit specific pump requirements.*

OPERATION

In operation the level control system utilises float switches operating on 24Vac. Typically four float switches are required (three float wiring possible) for the alternating duty/assist system; (see below). Alternating duty/standby can be achieved with three float switches wired to 1-2 (Stop), (3-4 Alternating Duty), 7-8 (High Level Alarm).

TYPICAL SUMP EMPTYING APPLICATION

Using two submersible pumps and four float switches.

As the liquid level rises it triggers the second float to start the pumps on an alternating basis. As the liquid level drops the bottom float is triggered to stop the pump. If for any reason the liquid level rises to float three, the second pump will also start to assist in emptying the sump. If the liquid level rises to the top float, the audible alarm is triggered and the alarm indicator light on the panel is illumininated. As a guide, it is recommended that the pump cycle should not be repeated more than 10 times per hour.

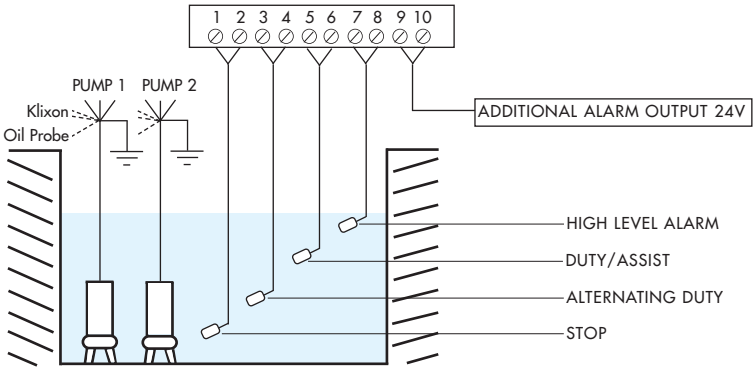
FEATURES

BOX: Sheet steel IP55 enclosure with triple hinge to left hand side and double locks to right. 4 x wall mounting brackets.

LID: Yellow Light = Mains On.
Green Lights = Pumps running.
Red Lights = Motor failure.
Lockable Door Interlocking Isolator:
Isolates power supply when lid is open.
Two Hand-Off-Auto Switches.
High powered IP65 Siren alarm.
Alarm on/off switch.

INTERNALS: 100VA Transformer: To reduce 400V supply to 24Vac for level control safety.
Plug-In Relay: For level controls.
Pre-wired with Klixon relays.
Pre-wired with water in oil probe relays.
Two Contactors with Motor Overload:
Manual setting for pump running Amps.
Will stop pump when set value is exceeded.
Fuses: Fuse holders with HRC fuses on mains and auxiliary circuits.

TYPICAL SUMP EMPTYING APPLICATION



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PUMPS

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