

# TYPE P2BPA2GNASHL AUTOMATIC CONTROL BOX

## Twin Pump Alternating Duty/Assist for 1 Phase Gnasher Pumps

**For waste water and sewage applications.**



Designed for the control and running of two 230V single phase Gnasher grinder pumps, offering protection against dry running and motor overload. Suitable for Gnasher models G1M-G5M up to a nominal 1.8kW.

MODEL	AMPS MIN/MAX (Ranges)	DIM. CM H x W x D	WEIGHT KG
P2BPA2GNASHL	7-10 / 9-13	60 x 40 x 22	18.0

### 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).

### FEATURES

**BOX:** Sheet steel IP55 enclosure with double hinge to left hand side and 2 key locks to right hand side. 4 x wall mounting brackets.

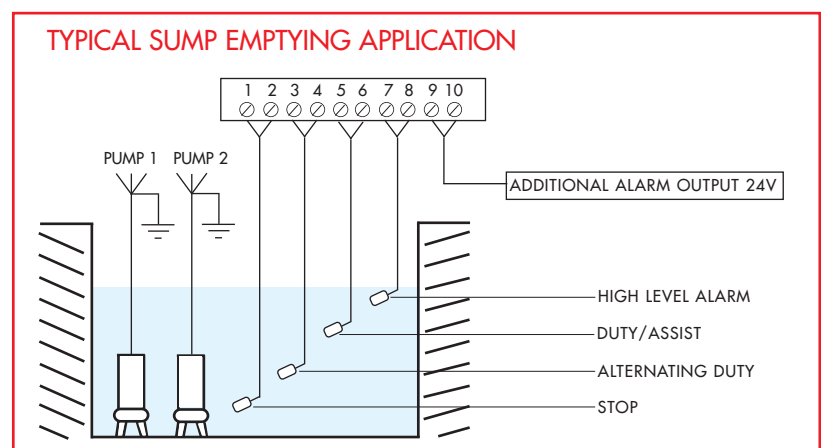
**LID:** Yellow Light = Mains On.  
Green Lights = Pumps running.  
Red Lights = Thermal cut-out.  
Lockable Door Interlocking Isolator:  
Isolates power supply when lid is open.  
Two Hand-Off-Auto Switches.  
Audible alarm buzzer - illuminated  
Alarm on/off switch

**INTERNALS:** 50VA Transformer: To reduce 230V to 24Vac for level control.  
Relay: For level controls.  
Two Contactors with Motor Overload:  
Manual setting for pump running Amps.  
Fuses: Fuse holders with HRC fuses on mains and auxiliary circuits.  
Start and Run capacitors with switch over relays.

### TYPICAL ALTERNATING DUTY/ASSIST 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 illuminated. As a guide, it is recommended that the pump cycle should not be repeated more than 10 times per hour.



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