Syntron[®] PowerPulse[™] (115/230V) WT Control

Thank you for buying your equipment from SYNTRON. This manual will help you to understand how your equipment operates and what is required to maintain peak performance. Please read it thoroughly and keep it on file for reference.

Your satisfaction is important to us, so please direct any comments to our Marketing Communications department.



INTRODUCTION

The PowerPulse 115/230V WT control regulates the vibration amplitude of feeders and vibrators through phase control provided by a Silicon Controlled Rectifier (SCR). The printed circuit board (PCB) includes an OFF-ON line switch, a terminal block, and an SCR assembly for converting alternating current to pulsating direct current. It also includes a potentiometer for controlling the voltage to the equipment. An intermittent switch (C1/C2) provides the OFF/ON switching capability typically required when the PowerPulse control is used with a flow switch or a parts detector.

SAFETY INSTRUCTIONS



Product safety labels must remain highly visible on the equipment. Establish a regular schedule to check visibility. If safety labels should require replacement, contact SYNTRON Material Handling, for an additional supply free of charge.



WARNING: These instructions and safety precautions must be followed. There is a hazard of electrical shock to the operator. NOTE: Local safety codes and regulations must be considered when installing and/or operating this control.

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INSTALLATION

Install the control, being careful to maintain its UL TYPE 4X and NEMA 4 rating integrity. Power supply voltage and frequency requirements are designated on the control nameplate. If remote mounting is necessary, the control should be installed close to the equipment where it is easily accessible and within sight of the operator. Installation on a wall in a clean, dry, vibration-free location is recommended. Ambient temperature should not exceed 105°F (40°C).



WARNING: The electrical power supply connection to the control must be made through a customer-supplied safety disconnect switch, which must be mounted next to the control. Incorporation of an emergency stop may also be required, per local codes.

When making electrical connections, it is important to follow the wiring diagram supplied with the control. CAUTION" Nonmetallic enclosure does not provide grounding between conduit connections. Use grounding bushings and jumper wires.



WARNING: The control must be properly grounded and verified at installation.

Enclosure integrity should be maintained at all times. Ensure any enclosure connectors used will maintain the UL or IEC rating of the supplied unit. Install enclosure lid gasket to maintain integrity rating.

OPERATION



WARNING: The control must be kept closed and secured while in operation.

After the control has been installed and all strain relief connections have been properly completed, the control is ready for operation. To energize the equipment, place the switch in the ON position. The potentiometer is used to control the vibration of the equipment. Turning the knob clockwise will increase the amplitude of vibration, and counterclockwise will decrease the amplitude of vibration.

MAINTENANCE



WARNING: Disconnect the power supply at the safety switch before performing any maintenance.

The only maintenance required is that the controller be kept reasonably clean.



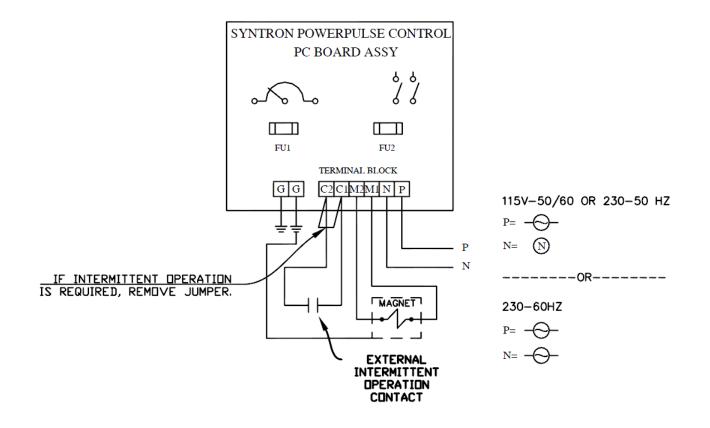
WARNING: Do not use a damp cloth or water for cleaning. Clean, dry air is recommended for cleaning.

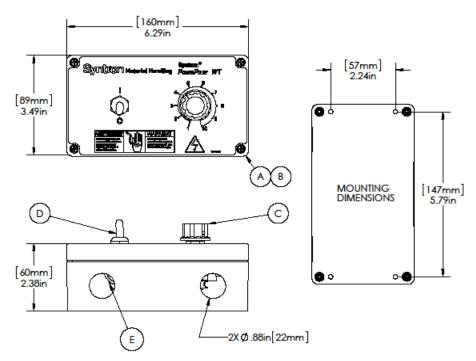
TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
No power from the control.	Open fuse(s)	*Replace the fuse(s)
	Loose connection	Repair
	Defective PCB	*Replace PCB
	Jumper wire	Ensure C1 & C2
		are
		closed/connected
No control of power from the control. Equipment runs at full capacity or with a weak hum. There is no definite stroke.	Defective PCB	*Replace PCB

*Replace only with parts recommended or supplied by SYNTRON.

WIRING DIAGRAM





PARTS LIST – 115V 50/60 HZ or 230V 50 HZ WT CONTROL (B-7200-006-A) 230V 60 HZ WT CONTROL (B-7200-006-B)

ltem	Description	Quantity	Part No.
А	Box Control	1	7220-015-A
В	Top Plate/Label ∎	1	7220-006-001
С	Knob	1	0118X039
D	Switch Boot	1	0038X314
E	PCB Assembly 115V 50/60, 230V/50	1	7220-008-A
E	PCB Assembly 230V/60	1	7220-008-B
	Fuses 6A	1 or 2	0174X026

■ Do not remove or paint over safety labels. If safety labels need replaced, contact SYNTRON Material Handling for an additional supply free of charge.

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Syntron[®] Link-Belt[®]

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