Syntron Material Handling

Service Instructions

Syntron®
Powerpulse ™
Control
Model: (230V) RC

www.syntronmh.com

Syntron® PowerPulse™ (230V) RC Control

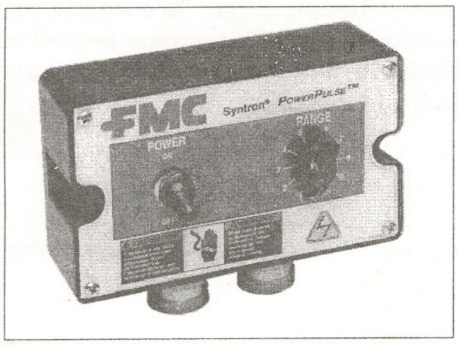
■■■■■■■■■■■■■■■■■■■■ INSTALLATION ■ OPERATION ■ MAINTENANCE

Thank you for buying your equipment from SMH. 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.

Date Purchased: _____
Part No.: _____
Serial No.: _____
Factory Order No.: _____

INTRODUCTION



The PowerPulse 230V RC 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 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, Material Handling Solutions Operation, 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.

INSTALLATION

The voltage and frequency of the power supply must match the designation on the control nameplate. The control assembly should be installed close to the equipment, where it is easily seen by and accessible to the operator.

Installation on a wall in a clean, dry, vibration-free location is recommended. Ambient temperature should not exceed 100ºF (40ºC).



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.



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

Enclosure integrity should be maintained at all times. The control enclosure must not deviate from the designated UL or IEC rating of the supplied unit.

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.

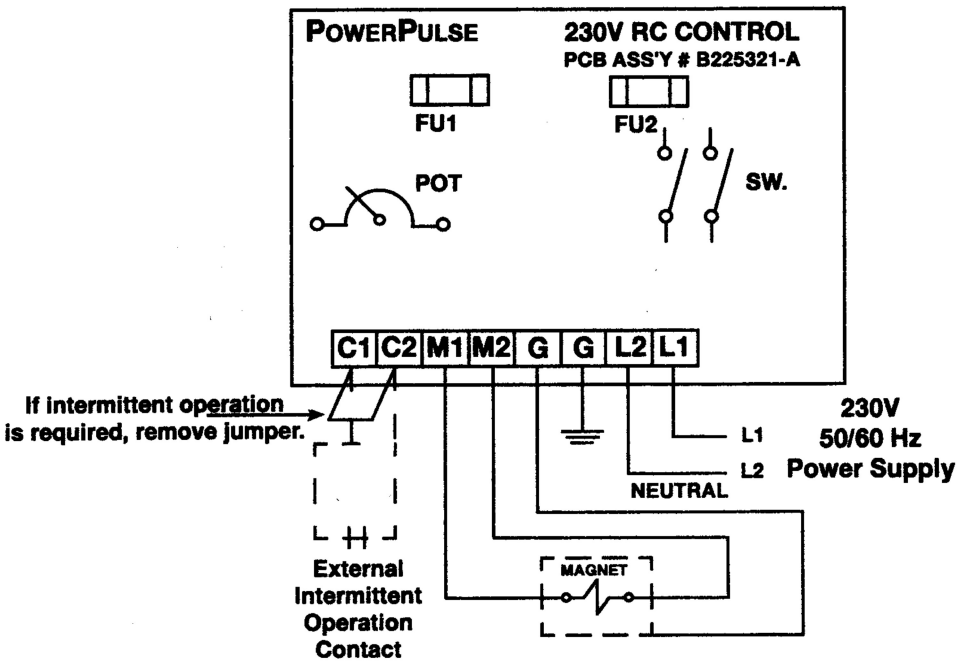
WARNING: Do not use a damp cloth or water for cleaning. Clean, dry, compressed air is recommended for cleaning.

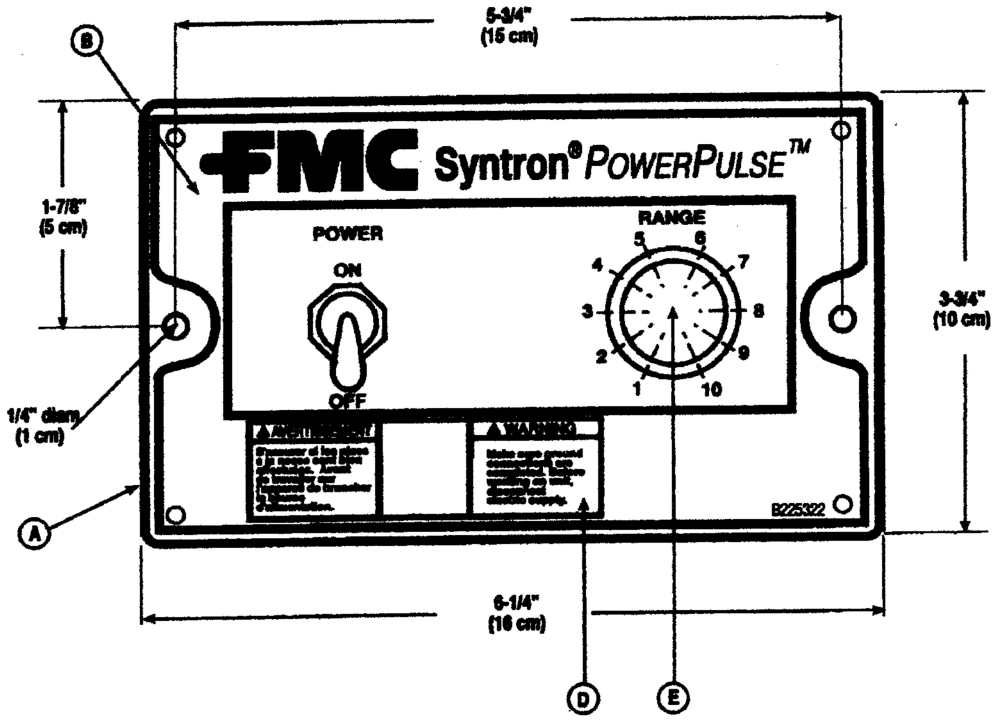
TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
No power from the control	Open fuse	*Replace the fuse
	Loose connection	Repair
	Defective PCB	*Replace PCB
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 Material Handling.

WIRING DIAGRAM





PARTS LIST – POWERPULSE 230V RC CONTROL (B-225490-A)

Item	Description	Quantity	Part No.
A	Box Control	1	B-134850
B	Top Plate/Label	1	B-225322-501
C	■ Nameplate (not shown)	1	A-107438-002
D	■ Label, Caution	1	A-125694
E	Knob	1	0118X031
F	SCR/Control PCB Assembly (not shown)	1	B-225321-A
	Fuses 6A	2	0174X026
	Switch	1	0051X888
	Wiring Diagram	1	B-225489

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

Syntron Material Handling, LLC. reserves the right to alter at any time, without notice and without liability or other obligations on its part, materials, equipment specifications and models. Syntron Material Handling, LLC. also reserves the right to discontinue the manufacture of models, parts, and components thereof.

Important

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Your satisfaction is very important to us. Please direct any comments, questions, or concerns to our Marketing Communications Department.

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