Automation Devices, Inc.

Amplitude Controller
Model 6000 Series

MODEL 6000.1

GENERAL PURPOSE

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Input: 120 VAC
50/60 HZ.
Output: 0-120 VAC
Single Unit Fuse Size: 15 AMPS
80% Duty Cycle at Rated AMPS

ADJUSTMENTS AND SET UP

1. SELECTING OUTPUT PULSE MODE

Choose an output mode of 120 or 60 by sliding the OUTPUT PULSE switch to the appropriate position.

Other names for "120 Pulses Per Second" are AC or 7200 VPM (Vibrations Per Minute). "60" is the same as DC or 3600 VPM or Rectified.

Note: Readjust MAX pot after changing pulse mode setting.

2. LIMITING THE MAXIMUM OUTPUT OF CONTROL

Adjust the **MAX** Output trimpot so that the output to the feeder reaches its desired maximum level when the **MAIN CONTROL DIAL** is turned fully clockwise. The **MAX** Output trimpot should be adjusted to keep the vibratory feeder from hammering when the control is turned up to full power.

NOTE: Output to feeder must be connected and the control set for proper output frequency (60 or 120 pulse) setting. The Run Jumper must be connected as shown on the wiring diagram.

A. Power input should be **OFF** or disconnected.
B. Rotate **MAIN CONTROL DIAL** on front cover to 0 or its minimum setting.
C. Open cover to allow access to printed circuit card.
D. Using **CAUTION**, turn power **ON** (no output should be present).
E. Rotate the **MAIN CONTROL DIAL** on front cover slowly to its highest setting.
F. Adjust the **MAX** output trimpot so that the output to the feeder reaches its desired maximum level when the **MAIN CONTROL DIAL** is turned fully clockwise. Turning the **MAX** output trimpot clockwise increases the maximum output level.

3. SETTING THE MINIMUM OUTPUT LEVEL OF CONTROL

When the vibratory feeder is nearly empty, turn the **MAIN CONTROL DIAL** fully counter-clockwise and adjust the **MIN** trimpot to just below the slowest speed that provides the proper feed rate.

4. REMOTE OFF/ON CONTROL

A Run Jumper has been installed at the factory as shown on the enclosed wiring diagram.

Note: TB2 terminals 5-7 are referenced to the line voltage circuit. Therefore any switch or contact connected to them must be isolated from other circuits.

Remote OFF/ON operation of the control can be configured to operate in one of the following ways.

A. A low current switch such as a paddle switch can replace the factory-installed Run Jumper "J1." The "Run Contact" connects across terminals 6 and 7. The contact must be able to switch 5VDC and 2mA. The control will then run only when the contact is closed. Refer to Section A of the OFF/ON CONTROL GUIDE.

B. Feeder Bowl/Hopper Interlock allows the Hopper control to operate only when the Bowl is running and the paddle switch contact is closed. The **interlock input** on terminals 11 and 12 of TB2 is controlled by the **Sensi-tron Controller.**

Remove jumper "J1" of this control from terminals 6 and 7. Connect the Hopper Paddle switch to alternate terminals 5 and 6. Connect TB2 terminals 11 and 12 of this control to the Switched 12V output of the **Sensi-tron Controller**. Refer to Section B of the OFF/ON CONTROL GUIDE.

Note: Two 6000 Series controls will not interlock to each other since neither one has an **interlock output**.

• TYPICAL SYSTEM WIRING DIAGRAM •