AC Controller
MagnaValve® Motor Current Controller

Features

- Digital display
- High-low alarm contacts
- Accepts remote command setpoint
- Provides analog recorder output
- Easy panel mounting (1/2 DIN)
- Provides automatic operation (a closed loop system) for the VLP-1000, LP-2000, and 100 MagnaValve®
- 120 Vac

Description

The AC Controller provides automatic operation (a closed-loop system) for the MagnaValve®. The feedback from the controller allows the MagnaValve to regulate steel shot in shot peening and blast cleaning applications where accurate and repeatable flow rates are desired. The controller may operate as a stand-alone control or work with a customer’s programmable controller via standard analog 0-10 Vdc interface. Alarm contacts will notify of a high or low motor current outside of an adjustable bandwidth.

A clear and comprehensive installation manual simplifies installation for the AC Controller and the product is supported by the Electronics Inc. application engineering staff.

The Closed Loop System with the AC Controller and a MagnaValve®
Specifications

Power
115 Vac, 50/60 Hertz, 50 VA

Inputs
0-5 Amps (From Wheel Motor)
Remote Command Setpoint (0 -10Vdc)
Enable (115Vac)
Alarm Reset (115 Vac)

Outputs
Valve Power 50Vdc PWM at 8 Hertz
Recorder Analog Output (0 -10Vdc)
Alarm Relay Contacts (115Vac @ 1Amp) Max.
Excitation Output Voltage ±12Vdc (100mA)
Reference Output Voltage +10Vdc (10mA)

Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
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<tbody>
<tr>
<td>2.84” (72 mm)</td>
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<tr>
<td>9.0” (229 mm)</td>
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<tr>
<td>5.67” (144 mm)</td>
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Shown with front panel removed
Panel Cutout Dimensions:
2.64” W x 5.35” H (67 mm x 136 mm)
Standard DIN opening

The AC Controller comes with a 0.05 Ohm current shunt for customer’s 0-5 Amp input signal. It is placed on screw terminals #16 and #18 for customer connection to wheel motor current transformer output leads.

Specifications

Weight
5 lb / 2.27 Kg

Display Range
0 -1999

Decimal Points
1999, 199.9, 19.9

Alarm Band
0 -50% of full scale

Alarm Delay
0 -10 seconds

Reset Delay
0 -10 seconds

Auto-Zero
±20% of full scale

Temperature Range
0 - 50˚C (32 - 122˚ F)