

AC Controller

MagnaValve® Motor Current Controller

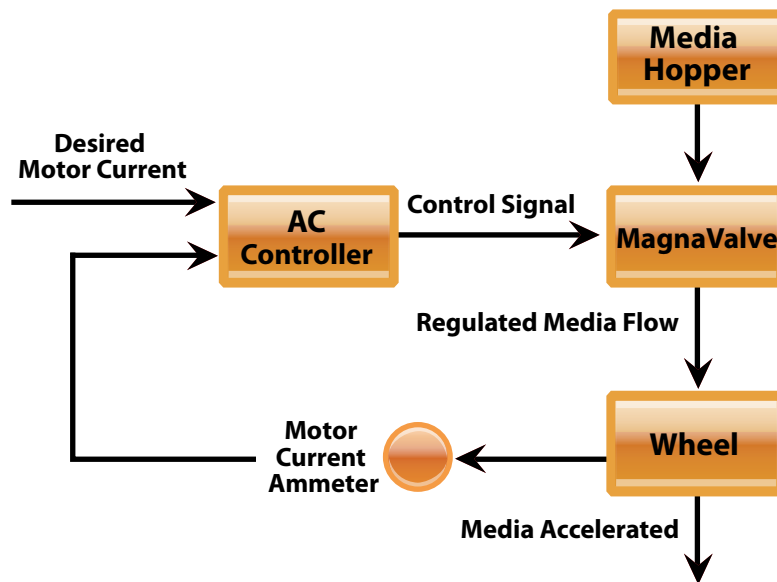
Features

- 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*

Available for download at www.electronics-inc.com

- [VLP-1000 MagnaValve Data Sheet](#)
- [100 MagnaValve Data Sheet](#)
- [LP-2000 MagnaValve Data Sheet](#)
- [AC Instruction Manual](#)



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Specification is subject to change without notice
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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 ± 12 Vdc (100mA)
Reference Output Voltage +10Vdc (10mA)

Dimensions

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

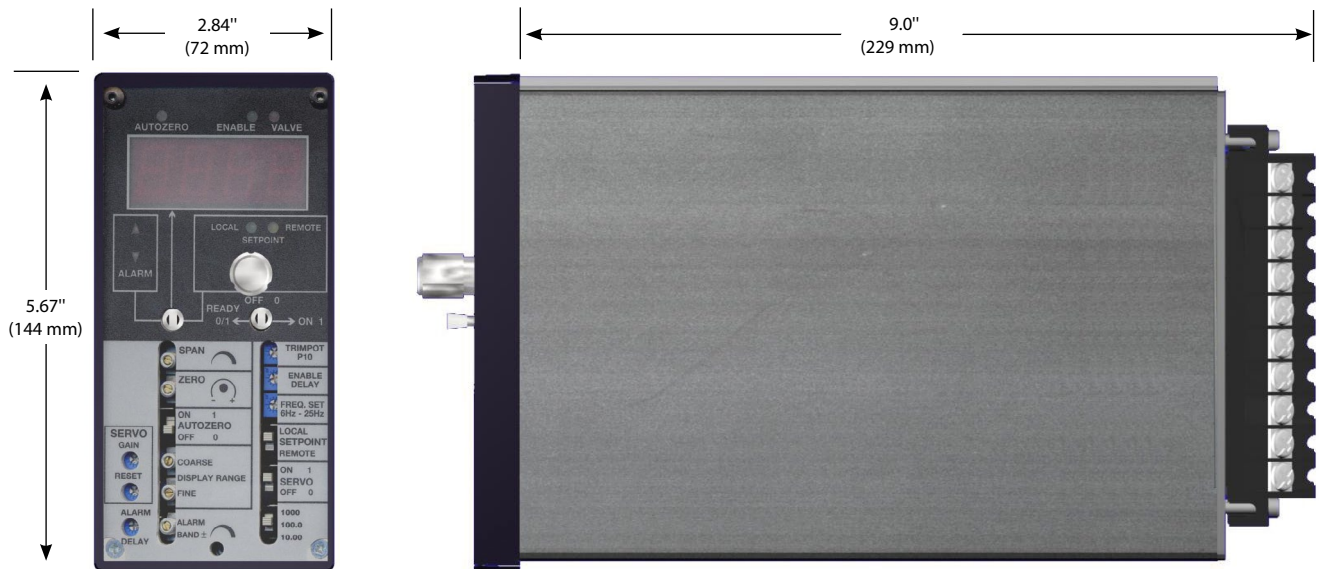
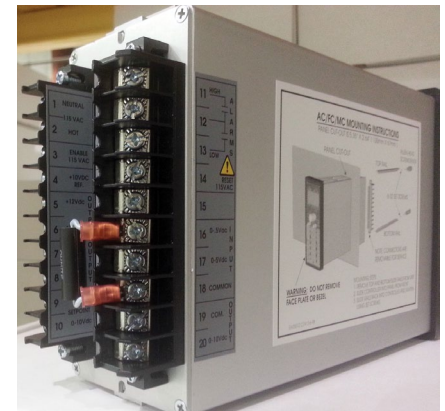
Auto-Zero

$\pm 20\%$ of full scale

Temperature Range

0 - 50°C (32 - 122° F)

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.



Shown with front panel removed

Panel Cutout Dimensions:
2.64" W x 5.35" H (67 mm x 136 mm)

Standard DIN opening