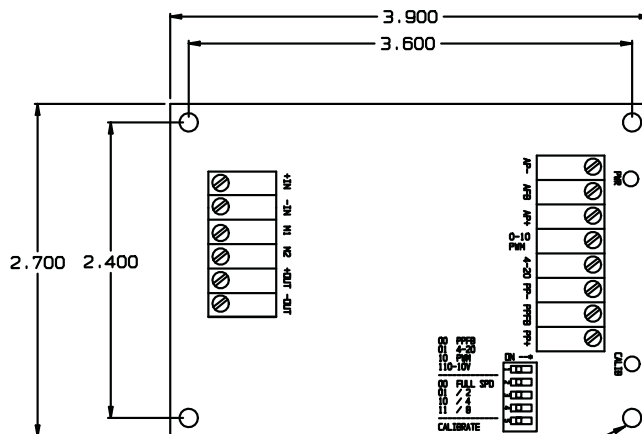


PEM-DMC CONTROL BOARD



MOUNTING HOLE
4 PLACES

Function:

- The PEM-DMC is a valve driver designed to remotely operate the Source Fluid Power motorized flow control valves equipped with the internal feedback (FB) option.
- The circuit works by reading the resistive strip inside the motorized flow control, which indicates the relative position of the opening. It compares this reading with that of the command, and drives the valve open or closed until it reaches the designated setting. Moving the pot to either extreme will drive the valve fully closed or fully open.
- This controller can be used with any motorized flow control with the feedback option.

Applications:

- This driver allows motorized flow and pressure control to be remotely actuated much in the same way as the manual valves they replace. Command input can be a standard 10K ohm pot, or a remote signal (4-20ma, 0-10 volt, or PWM driver).
- The unit will work as an interface between a manufacturers control system and the motorized flow control. This allows the motorized valve to replace other proportional valve drives without having to modify the existing controller.

Specifications:

- Circuit board is 3.90" long x 2.70" wide x .75" high. Conformal coated to resist moisture and corrosion. Mounting holes for #6 screws. Screw clamp terminal strip wire connectors.
- Supply Voltage:
9-28 Vdc (Extended supply above 28volts will damage device).
20ma steady state when powered @13.7 volts.
Reverse polarity protected.
Internal 2.0 amp fuse.
Surge Voltage Battery protection built in.
- Auxiliary output:
12Vdc (The auxiliary output is protected through a 140ma thermal fuse).
- Control Input:
Panel pot, 0-10K nominal.
4-20ma.
PWM, 200hz-200khz, 3-28 volts peak to peak.
0-10 Vdc, 5k ohm input, 2ma current draw @10V.
- Operational Temperature:
-40° to 85°C.
- Switch settings:
Input select (pot, 4-20, PWM or 0-10).
Speed setting (/1, /2, /4, /8)
- RS232, 9600, 8, N, 1.
- PWM motor control
0-100%, bidirectional, 4.8Khz.