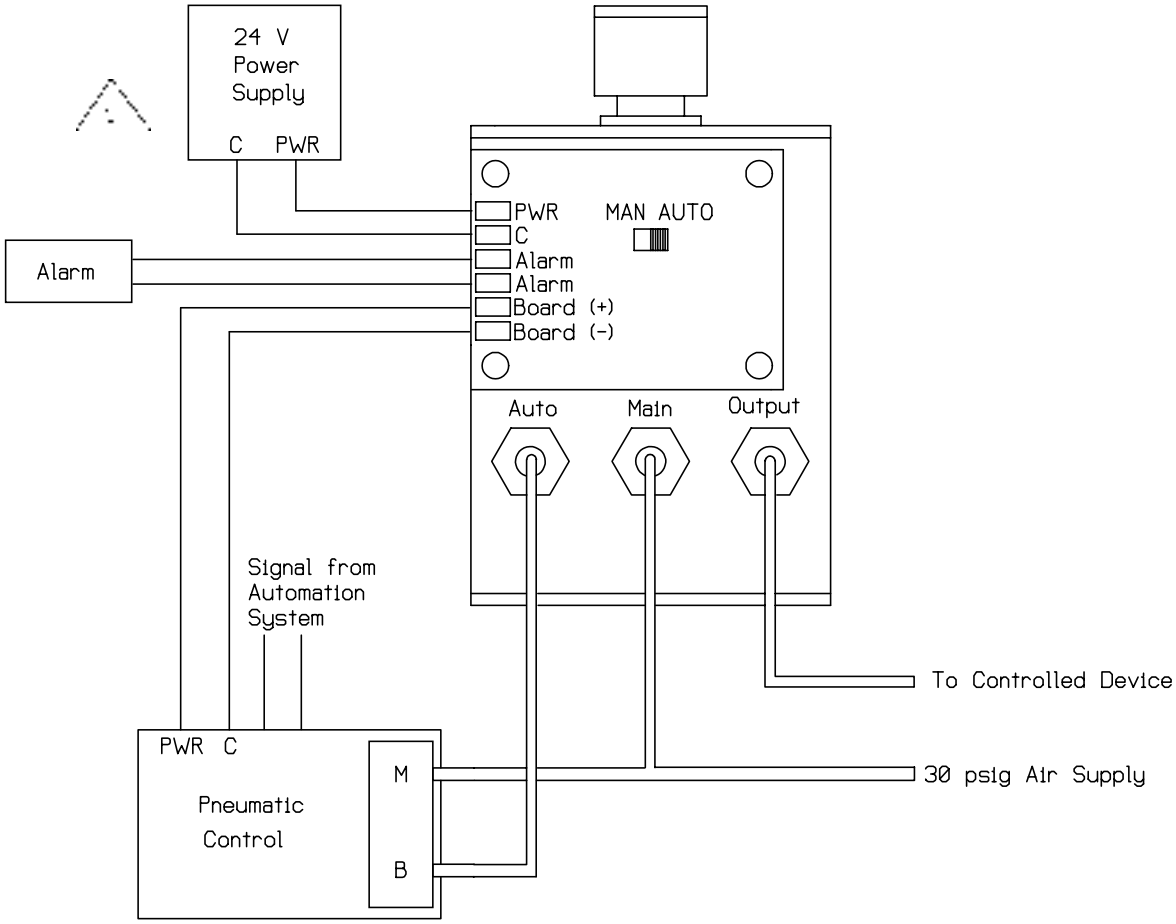
MPOE

Manual Pneumatic Override/Electric



INSTALLATION

READ THESE INSTRUCTIONS BEFORE YOU BEGIN INSTALLATION.

MOUNTING:

MPOE is designed to mount in a remote field panel using 3/16" dia. mounting holes in base.

POWER CONNECTIONS:

Be sure to follow all local and electrical codes.

Refer to wiring diagram for connection information.

1. The transformer secondary supply voltage to the MPOE should be isolated from earth ground, chassis ground, and neutral leg of the primary winding. Any field device connected to this transformer must use the same common. If you are not sure of other field device configura tions, use separate transformers.
2. **If the 24 volt AC or DC power is shared** with other devices that have coils such as relays, solenoids, or other inductors, each coil must have an MOV (if AC), a diode (if DC), AC or DC Transorb, or other spike snubbing device across each of the shared coils. Without these snubbers, coils produce very large voltage spikes when de-energizing that can cause mal function or destruction of electronic circuits on the interface being used.

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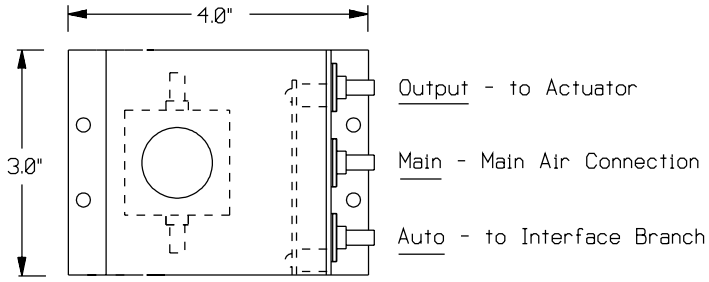
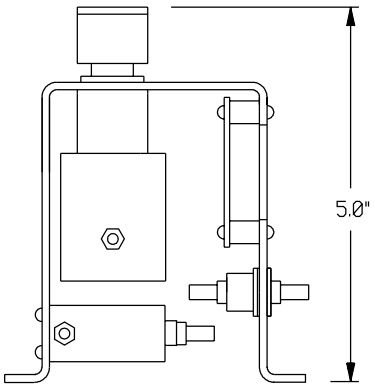
OPERATING INSTRUCTIONS

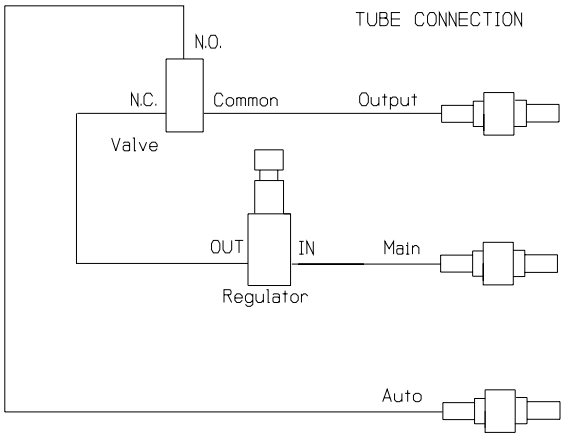
The Manual Pneumatic Override - Electric Model (MPOE) has two modes of operation, MANUAL and AUTO, as selected by the MAN/AUTO override switch. The MAN/AUTO switch in the manual position provides power to the change-over valve which selects the pressure regulator as the MPOE output source. In AUTO operation, the pneumatic interface (or similar pneumatic control) branch output is connected through the AUTO input to the MPOE OUTPUT. In MANUAL operation, the change-over valve is powered, the AUTO port blocked from the OUTPUT, and control is switched to the pressure regulator to supply the MPOE output pressure.

The state of the ALARM feedback output is N.O. in the AUTO mode unless specified otherwise at time of order.

If there is loss of power in AUTO operation the output pressure remains the same as the interface output (or similar pneumatic control). If there is loss of power in MANUAL operation the output will default to the AUTO position (AUTO and OUTPUT also connected). If the interface (or similar pneumatic control) is fail-safe (such as the PXP2.2FS, PWP2.2FS or any of their bleed type single valve versions) the output will bleed down to 0 psig. If not, the output line will remain at the pressure existing when power failed.







Power Supply	24 VDC or VAC +/- 10%
Power Supply Current	800 mA maximum
Alarm Feedback	N.O. or N.C. contact (Factory Set)
Alarm Current	1.2 A maximum
Board Power Supply	Same as Power Supply
Board Supply Current	800 mA maximum
Supply Air Pressure	30 psig maximum

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