# PMC-1 ELECTRO-PNEUMATIC CONTROLLER


**PMC-1 ELECTRO-PNEUMATIC CONTROLLER**

- **Simplified Installation eliminates need for Positioner, I/P, External Power Supply & Instrument Quality Air**
- **No Air Consumption at Steady State**
- **Air Output 0 to Maximum Supply Pressure**
- **Loss of Power Reset**
- **Accuracy to ±0.5% of Span**
- **Easy to Read Digital Display**
- **Internal Power Supply for Transmitter**

## Options

- Pressure Transmitter
- RTD, Thermocouple and Transmitting Thermocouple
- Differential Pressure Transmitter
- Thermowell

## Application Data

- Process Control Systems Pressure/Temperature Control
- HVAC Systems
- Packaged Systems such as Water Purification, Vaporizers, Metal Cleaning, Plating, etc.
- Feed Water and Fuel System Controls in Boiler Rooms
- Ideal for Pressure Control

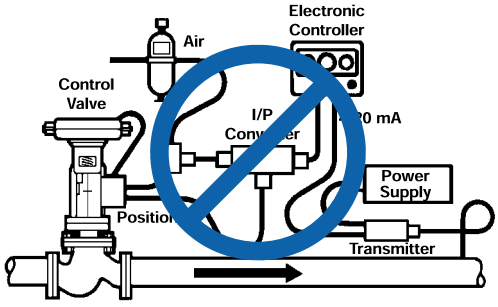
## Applicable Codes

NEMA 4 Enclosure

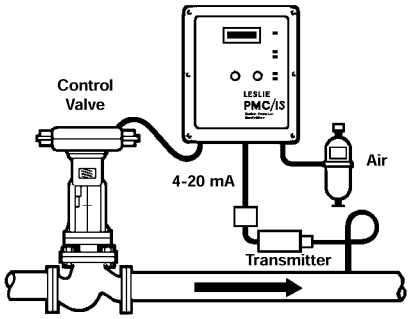
## Models

PMC-1—Electro-Pneumatic Controller
PMC-1DA—Used for double acting Actuator
PMC-1M—For size 85 Actuator only

# PMC Simplifies your Pressure Control System




**Conventional Electronic Control System**




**Leslie PMC System**

# PMC-1 ELECTRO-PNEUMATIC CONTROLLER

## SPECIFICATION

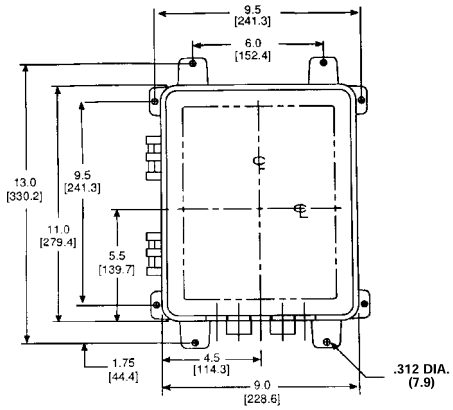
### PMC-1 SERIES

Controllers shall be electro-pneumatic, accepting an input signal of 4 to 20 mA or RTD input and providing an output of 0-100 psig capable of modulating diaphragm or cylinder actuators without the use of valve positioners or I/P transducers. Controllers shall be capable of operating on 115/230 VAC, 50/60 Hz or 24 VDC supply and provided with a minimum 31/2 inch digital display indicating set point, process variable, deviation from set point and high/low calibration values.

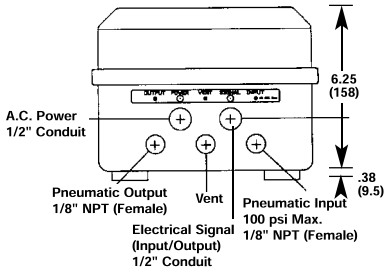
Controllers shall be capable of direct or reverse action and provided with external AUTO/MANUAL switch. Controllers shall have no steady-state air consumption and be capable of accepting a 100 psig input without the use of regulators. Accuracy shall be ±0.5% of span, gain shall be adjustable, dead band shall be adjustable 0–5% of span and controllers shall be provided with an adjustable derivative function.

Enclosures shall be NEMA 1, 2, 3, 3S, 4 and 4X rated and provided with a hinged cover.

Controllers shall be Leslie Controls or approved equivalent.




PMC-1




## RATINGS

| | |
|---|---|
| Supply Voltage | 115 Volts 50/60 Hz<br>230 Volts 50/60 Hz<br>24 Volts DC |
| Operating Voltage Range | 90 to 110% |
| Power Consumption | 10 Watts (max)<br>0.7 Watts (steady state) |
| Input | 4-20 mA |
| Air Supply | 100 psig maximum |
| Output | 0 to max supply pressure |
| Air Consumption | 0 at steady state |
| Accuracy | ±0.5% Span |
| Response Speed Range | 200:1 |
| Amplifier Gain | Normal = 6<br>High = 12 |
| Dead Band | Adjustable, 0 to 5% Span |
| Input Resistance | 150 Ohms |
| Enclosure Material | Noryl[1] |
| Enclosure Cover | Polycarbonate |
| Pneumatic Fittings | 1/8" FNPT |
| Air Delivery | 0.45 scfm at 30 psi<br>0.55 scfm at 60 psi<br>0.63 scfm at 90 psi |
| Weight | 9 lbs (4.1 kg) |

1. Noryl is a registered trademark of General Electric.