



CURRENT/VOLTAGE TO PNEUMATIC MODEL 512000

The 512 Series of I/P and E/P Transmitters are electro-pneumatic devices providing conversion from current and voltage signals to proportional pneumatic signals. An integral pneumatic volume booster is included in the design to provide high flow capacity. Zero and Span controls are provided for rapid field calibration. The 512 Series is a very stable and accurate instrument for use in general- purpose instrumentation applications.

PNEUMATIC TRANSMITTER



STANDARD MODELS CURRENT TO PNEUMATIC

Input	Output	Impedance in OHMS
4-20MADC	3 to 9PSIG	90
4-20MADC	9 to 15PSIG	90
4-20MADC	3 to 15PSIG	180
4-20MADC	3 to 27PSIG	220
4-20MADC	6 to 30PSIG	220
10-50MADC	3 to 15PSIG	70
10-50MADC	3 to 27PSIG	85
10-50MADC	6 to 30PSIG	85

VOLTAGE TO PNEUMATIC

0-5VDC	3 to 15PSIG	615
0-5VDC	3 to 27PSIG	530
0-5VDC	6 to 30PSIG	530
1-9VDC	3 to 15PSIG	985
1-9VDC	3 to 27PSIG	840
1-9VDC	6 to 30PSIG	840

EXPLOSION-PROOF CURRENT-TO-PNEUMATIC

4-20MADC	3 to 15PSIG	180
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INTRINSICALLY SAFE CURRENT-TO-PNEUMATIC

4-20MADC	3 to 15PSIG	180
4-20MADC	3 to 27PSIG	220

TECHNICAL SPECIFICATIONS

Linearity:

+/- 1.0% of Span at 25PSIG Supply

Supply Pressure Sensitivity:

+/- 0.1% of Span/PSIG at Midrange

Supply Pressure Range:

18 to 100PSIG

Flow Rate:

4.5 SCFM at 25PSIG

10 SCFM at 70PSIG

Air Consumption:

0.1 SCFM at Midrange

Weight:

2.1 Pounds

Repeatability:

0.5% of Span

Hysteresis:

1.0% of Span

Port Sizes:

1/4" NPT Pneumatic

1/2" NPT Electrical

Size:

2 1/8" x 2 1/2" x 4"

The type 512000 explosion-proof transmitter has been designed for use in hazardous locations for Class 1, Division 1, Group D; Class 2, Division 1, Groups E, F, G, and Class 3 requirements. It also has been designed to meet NEMA-4 requirements. The 512000 explosion-proof transmitter has been submitted, tested, and approved by Factory Mutual Research for the above Classes, Divisions, and Groups. Canadian Standard approvals available upon request.