I/P Transducer

TA901 • Electropneumatic



TA901 shown

- 4 to 20 mA Input
- 3 to 15 PSI Output
- Intrinsically Safe
- Zero and Span Adjustments

The Trerice TA901 Electropneumatic (I/P) Transducer

converts a milliamp current signal to a linearly proportional pneumatic output pressure. This transducer is designed for control applications that require a high degree of reliability and repeatability. The TA901 is used in the control operation of valve actuators and pneumatic valve positioners in the petrochemical, HVAC, energy management, textile, paper, and food and drug industries.

The TA901 I/P Transducer is tested and approved by Factory Mutual as Intrinsically Safe Class I, II and III, Division I, Groups C, D, E, F and G when installed in accordance with the Installation, Operation and Maintenance Instructions. It should be installed in a vertical position in a vibration-free area.

The Trerice TA987 Air Filter/Regulator is recommended for filtering and regulating the pressure of plant compressed air and delivering clean, dry air at the proper pressure to pneumatic control devices.

Specifications

Model

TA901

Input 4-20 mA

Output

1-17 psig Per ANSI/FCI 87-2 (can be calibrated to provide 1-9 psig or 9-17 psig)

Volume Booster

Built-in volume booster allows flow capacity up to 20 SCFM

Connections

Pneumatic: 1/4 NPT Electric: 1/2 NPT

Air Requirements

Clean, oil-free, dry air filtered to 40 microns

Minimum Supply Pressure: 3 psig

Maximum Supply Pressure: 100 psig

Sensitivity: <±0.1% of span per psig

Air Consumption: 0.03 SCFH typical

Flow Rate: 4.5 SCFM at 25 psig supply

Relief Capacity: 2.0 SCFM at 5 PSIG above 20 psig setpoint

Mounting

Pipe, panel or bracket in a vibration-free area. Field adjustment will be required if mounted in a nonvertical position

Adjustment

Adjustable zero and span

Accuracy

Terminal Based Linearity: <±0.75% of span

Repeatability: <0.5% of span Hysteresis: <1.0% of span Response Time: <0.25 sec. @

3-15 psig

Intrinsic Safety

Tested and approved by Factory Mutual as Intrinsically Safe Class I, II and III, Division I, Groups C, D, E, F and G when installed in accordance with Installation, Operation and Maintenance Instructions

Ambient Temperature

-20°F (-30°C) to 140°F (60°C)

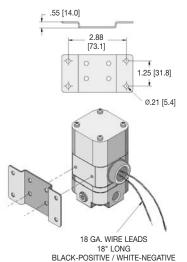
Approximate Shipping Weight

2.1 lbs [0.94 kg]

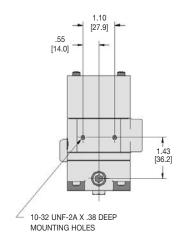
HOW TO ORDER

Please order using Item Number

MOUNTING BRACKET



TA901



All dimensions are nominal. Dimensions in [] are in millimeters.

