

# I/P Transducer

## TA901 • Electropneumatic

CONTROLLER ACCESSORIES



TA901 shown

- ▶ 4 to 20 mA Input
- ▶ 1 to 17 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 Intrinsic 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

<p><b>Model</b> TA901</p> <p><b>Input</b> 4-20 mA</p> <p><b>Output</b> 1-17 psig Per ANSI/FCI 87-2 (can be calibrated to provide 1-9 psig or 9-17 psig)</p> <p><b>Volume Booster</b> Built-in volume booster allows flow capacity up to 20 SCFM</p> <p><b>Connections</b> Pneumatic: 1/4 NPT Electric: 1/2 NPT</p>	<p><b>Air Requirements</b> Clean, oil-free, dry air filtered to 40 microns</p> <p>Minimum Supply Pressure: 3 psig</p> <p>Maximum Supply Pressure: 100 psig</p> <p>Sensitivity: <math>&lt;\pm 0.1\%</math> of span per psig</p> <p>Air Consumption: 0.03 SCFH typical</p> <p>Flow Rate: 4.5 SCFM at 25 psig supply</p> <p>Relief Capacity: 2.0 SCFM at 5 PSIG above 20 psig setpoint</p>	<p><b>Mounting</b> Pipe, panel or bracket in a vibration-free area. Field adjustment will be required if mounted in a nonvertical position</p> <p><b>Adjustment</b> Adjustable zero and span</p> <p><b>Accuracy</b> Terminal Based Linearity: <math>&lt;\pm 0.75\%</math> of span Repeatability: <math>&lt;0.5\%</math> of span Hysteresis: <math>&lt;1.0\%</math> of span Response Time: <math>&lt;0.25</math> sec. @ 3-15 psig</p>	<p><b>Intrinsic Safety</b> 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</p> <p><b>Ambient Temperature</b> <math>-20^{\circ}\text{F}</math> (<math>-30^{\circ}\text{C}</math>) to <math>140^{\circ}\text{F}</math> (<math>60^{\circ}\text{C}</math>)</p> <p><b>Approximate Shipping Weight</b> 2.1 lbs [0.94 kg]</p>
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### HOW TO ORDER

Please order using Item Number

**TA901**

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

