

# TRANSDUCERS

## CURRENT / PNEUMATIC TRANSDUCER T-1000

### DESCRIPTION

The Bellofram T-1000 industrial-grade current/pneumatic transducer reduces a supply pressure to a regulated output pressure that is directly proportional to a 4-20 mA input signal. An integral pneumatic volume booster is included in the design to provide high flow capacity up to 20,736 scim (20 m<sup>3</sup>/hr).

### FEATURES

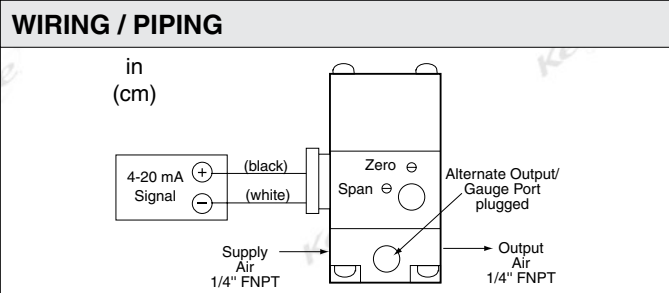
- High airflow capacity
- Wide supply pressure range
- Direct or reverse acting
- Convenient external span and zero adjustments
- Bracket included for panel or wall mounting

### APPLICATION

The T-1000 is calibrated at the factory for direct-acting operation but may be used in the reverse-acting mode by reversing the polarity of the signal leads and recalibrating. When calibrated for reverse-acting applications, the T-1000 transducer provides a minimum of its full rated output pressure (i.e., 15 psig/103 kPa) upon input signal failure. The 4-20 mA input to 3-15 psig (21-103 kPa) output can be recalibrated using zero and span adjustments to provide 3-9 psig (21-62 kPa) or 9-15 psig (62-103 kPa) output for split ranging applications.



T-1000



### SPECIFICATIONS

<b>Supply Voltage</b>	None, loop powered	<b>Air Consumption</b>	0.1 scfm (0.2 m <sup>3</sup> /hr) @ midrange
<b>Input</b>	4-20 mA, 1-9 VDC (-1 model)	<b>Repeatability</b>	<0.5% of span
<b>Input Impedance</b>	180Ω @ 4-20 mA, 985Ω @ 1-9 VDC	<b>Linearity</b>	<±1% of span
<b>Output</b>	3-15 psig (21-103 kPa); adjustable, can split range 3-9 or 9-15 psig	<b>Hysteresis</b>	<1% of span
<b>Wiring Terminations</b>	Leads with 1/2" NPT conduit connection	<b>Operating Temperature</b>	-20° to 160°F (-30° to 70°C)
<b>Air Capacity</b>	7,776 scim (7.6 m <sup>3</sup> /hr) @ 25 psig (175 kPa) supply; 20,736 scim (20 m <sup>3</sup> /hr) @ 100 psig (700 kPa) supply	<b>Dimensions</b>	2.2"H x 4.2"W x 2.3"D (5.5 x 10.8 x 5.7 cm)
<b>Pressure Range</b>	18 psig (124 kPa) minimum, 100 psig (690 kPa) maximum	<b>Weight</b>	2.1 lb (0.94 kg)
<b>Air Connections</b>	1/4" FNPT with auxiliary gauge port	<b>Approvals</b>	CE
		<b>Warranty</b>	1 year

### ORDERING INFORMATION

MODEL	DESCRIPTION
T-1000	Current/pneumatic transducer, 4-20 mA input, 3-15 psig (21-103 kPa) output
T-1000-1	Current/pneumatic transducer, 1-9 VDC input, 3-15 psig (21-103 kPa) output
T-1000-C	Current/pneumatic transducer, custom calibration

	RELATED PRODUCTS
010115-000	DIN rail adapter for T-1000 current/pneumatic transducer
M-111	1/4" MNPT x 1/8" FNPT bushing
PG-05	Pressure gauge, 0-30 psig (10-200 kPa), 1.5" dial, 1/8" NPT center back mount