

PT-L9/L13/L14

Millivolt-per-Volt Output Pressure Transducer



Datasheet



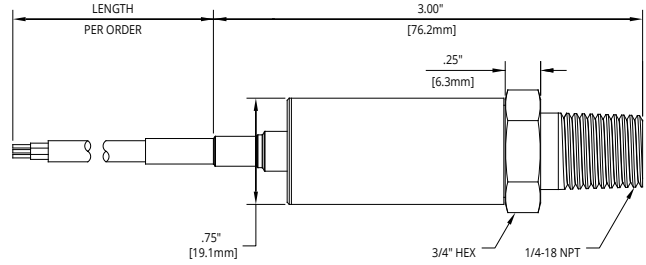
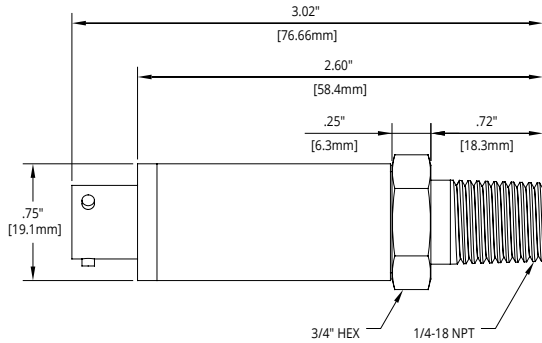
Our millivolt output transducers are the economical answer for all general purpose measurements where a cost-effective, high reliability unit is required. The PT-L9/L13/L14 pressure transducers offer ranges up to 5,000 psi, single piece stainless steel construction, and a tamper-resistant body design.

FEATURES

- Cost effective
- Optional extended temperature compensation
- Stainless steel process fitting and sensor

PT-L9/L13/L14 SPECIFICATIONS

All dimensions are only approximate. For application-specific inquiries, please contact our application specialists. Drawings not intended for replication.



Performance

- Accuracy
 - B.F.S.L. $\leq 0.25\%$ of full scale
 - NIST up to $\pm 0.1\%$ available on select ranges
- Temp Compensation Range: (Standard)
 - Up to $0^\circ - 130^\circ\text{F}$ ($-17^\circ - 54^\circ\text{C}$)
- Extended Temp Compensation Range: (Optional)
 - Up to $-40^\circ - 250^\circ\text{F}$ ($-40^\circ - 121^\circ\text{C}$)
- No Temperature Specification for ≤ 5 psi

Connectivity

- Output:
 - L9: $10\text{ mV/V} \pm 2\%$
 - L13: $3\text{ mV/V} \pm 2\%$
 - L14: $5\text{ mV/V} \pm 2\%$

Electrical

- Supply Voltage:
 - All Models calibrated for 10VDC input
- Electrical Protection:
 - Reverse polarity

Physical

- Material: 15-5, 17-4, or 316L SS

Programming

- Field Calibration:
 - No field adjustments available

COMMON MODEL CONFIGURATIONS

10 mV/V Output, Standard Temperature Range

Model Number	Model Description
PT-L9-C-15-PSIA-E5-5-P0-N0-M1-V0-S0	0-15 PSI, Absolute Pressure Reference, 1/4" NPTM, 316L SS , 5 ft. cable
PT-L9-C-5-PSIG-E5-5-P0-N0-M1-V0-S11	0-5 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS , 5 ft. cable
PT-L9-C-15-PSIG-E5-5-P0-N0-M1-V0-S0	0-15 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS , 5 ft. cable
PT-L9-C-30-PSIG-E5-5-P0-N0-M1-V0-S0	0-30 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS , 5 ft. cable
PT-L9-C-50-PSIG-E5-5-P0-N0-M1-V0-S0	0-50 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS , 5 ft. cable
PT-L9-C-100-PSIG-E5-5-P0-N0-M1-V0-S0	0-100 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS , 5 ft. cable
PT-L9-C-200-PSIG-E5-5-P0-N0-M1-V0-S0	0-200 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS , 5 ft. cable
PT-L9-C-300-PSIG-E5-5-P0-N0-M1-V0-S0	0-300 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS , 5 ft. cable
PT-L9-C-500-PSIG-E5-5-P0-N0-M1-V0-S0	0-500 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS , 5 ft. cable
PT-L9-C-1000-PSIS-E5-5-P0-N0-M2-V0-S0	0-1,000 PSI, Sealed Gauge Reference, 1/4" NPTM, 17-4 SS , 5 ft. cable
PT-L9-C-5000-PSIS-E5-5-P0-N0-M2-V0-S0	0-5,000 PSI, Sealed Gauge Reference, 1/4" NPTM, 17-4 SS , 5 ft. cable

ACCESSORIES

Please order separately, by part number.

Mating Connector	Part Number	Cable in Feet Part Number Suffix
4-pin bayonet mating connector (E3)	509010	-20xx
6-pin bayonet mating connector (E17)	509165	-20xx

xx = 02, 05, 10, or 25

MODEL CONFIGURATION OPTIONS



Model Number: PT- - C - - - - - - - - - - -

A B C D E F G H I J K

A. Operation

- L9** 10 mV/V output
- L13** 3 mV/V output
- L14** 5 mV/V output

B. Common Pressure Ranges - PSI*

- 1** **30** **300** **3000**
- 5** **50** **500** **5000**
- 15** **100** **1000**

C. Unit of Measure

<input type="checkbox"/> PSI [▲]	<input type="checkbox"/> kPa	<input type="checkbox"/> inHg
<input type="checkbox"/> bar	<input type="checkbox"/> inH₂O	<input type="checkbox"/> kgcm²
<input type="checkbox"/> mbar	<input type="checkbox"/> mmHg	<input type="checkbox"/> fsw

D. Pressure Type

- G** Gauged
- S** Sealed‡
- A** Absolute[∞]

E. Electrical Connection

Mating connector sold separately

- E3** 4-pin bayonet
- E5**[▲] Pigtail with cable (specify length below)
- E17** 6-pin bayonet

F. Electrical Cable Length

- W1** 2 Feet for **E5** connection
- W2** 5 Feet for **E5** connection
- W3** 10 Feet for **E5** connection
- W4** 25 Feet for **E5** connection
- W0** 0 Feet for **E3/E17** connection

G. Process Connection

- P0**[▲] 1/4-18 NPTM
- P7** 7/16-20 SAE male
- P14** 1/8-27 NPTM
- P16** PT 1/4 (BSPP) male

H. Accuracy

- N0**[▲] ±0.25%
- N1** ±0.25% with NIST certification
- N2** ±0.1% with NIST certification

I. Materials

- M1**[▲] 316L SS (up to 5K psi)

J. Vibration

- V0**[▲] Standard
- V1** High (not available with K0)

K. Temperature Compensation Range

- S0**[▲] Standard: 0° - 130°F (-17° - 54°C)
- S1** Extended: -40° - 180°F (-40° - 82°C)
- S2** Extended: -40° - 250°F (-40° - 121°C)
- S4** Extended: 0° - 185°F (-17° - 85°C)
- S11**[▲] No Temperature Specification (≤ 5 psi)

Note: ▲ Indicates this option is standard.
† For pressure ranges between **1-500**
∞ For pressure ranges between **15-500**
‡ For pressure ranges between **1000-5000**