

Amplified Output Industrial Pressure Transducers

Series: PT-L1/L3/L10

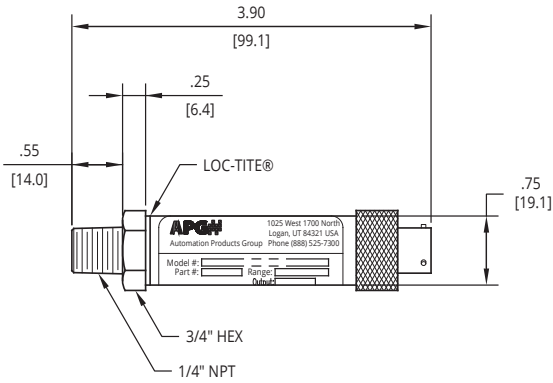


Our amplified output pressure transmitters are the economical answer for all applications requiring high accuracy and reliability over a wide range of pressures. The PT-L1/L3/L10 pressure transmitters offer ranges from vacuum to 10,000 psi, all stainless steel construction, high burst pressure, and high accuracy.

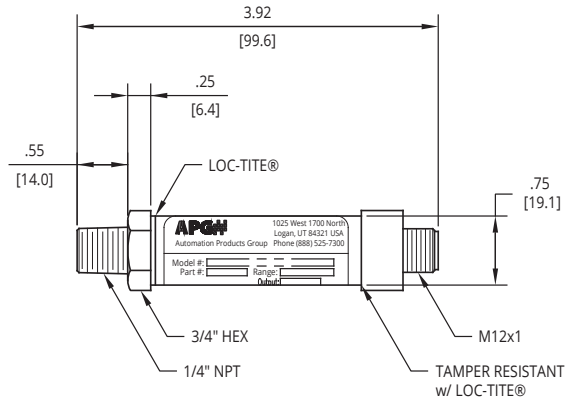
Features

- Cost effective
- High overpressure capability
- Zero and span adjustments
- Single piece stainless steel process fitting and sensor

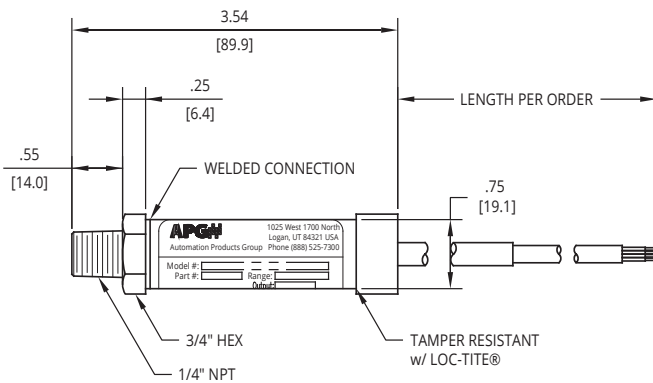
PT-L1/L3/L10 Specifications



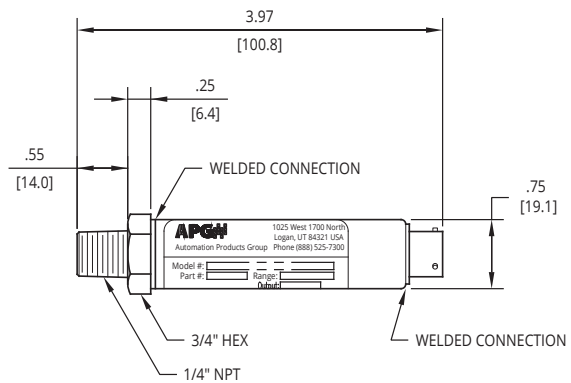
K0, E3 - KNURLED NUT, 4-PIN BAYONET
4-PIN BAYONET w/ KNURLED NUT
CAN - PROCESS CONNECTION w/ LOC-TITE®



K1, E4 - TAMPER RESISTANT NUT, 4-PIN M12
EUROFAST M12 w/ TAMPER RESISTANT NUT & LOC-TITE®
CAN - PROCESS CONNECTION w/ LOC-TITE®



K2, E5 - TAMPER RESISTANT NUT, PIGTAIL
CABLE PIGTAIL w/ TAMPER RESISTANT NUT & LOC-TITE®
CAN - PROCESS CONNECTION WELDED



K3, E3 - WELDED 4-PIN BAYONET
4-PIN BAYONET, WELDED CONNECTION
CAN - PROCESS CONNECTION WELDED

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:
Up to $0^\circ - 130^\circ\text{F}$ ($-17^\circ - 54^\circ\text{C}$)
- Extended Temp Compensation Ranges: (Optional)
 $-40^\circ - 180^\circ\text{F}$ ($-40^\circ - 82^\circ\text{C}$)
 $0^\circ - 185^\circ\text{F}$ ($-17^\circ - 85^\circ\text{C}$)

Connectivity

- Output:
4-20 mA
0-5 VDC
1-5 VDC
1-6 VDC
0-10 VDC
- Internet Connectivity:
RST-5003 (4-20 mA version only)

Electrical

- Supply Voltage:
4-20 mA: 10 - 36 VDC
0-5 VDC: 9 - 33 VDC
1-5 VDC: 9 - 33 VDC
1-6 VDC: 9 - 33 VDC
0-10 VDC: 14 - 33 VDC
- Electrical Protection:
Reverse polarity

Physical

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

Programming

- Field Calibration:
Zero and Span adjust



Common Model Configurations

4-20 mA Output

Model Number	Model Description
PT-L1-C-15-PSIA-E5-5-P0-N0-M1-V0-K0-S0	0-15 PSI, Absolute Pressure Reference, 1/4" NPTM, 316L SS, 5 ft. cable
PT-L1-C-60-PSIA-E5-5-P0-N0-M1-V0-K0-S0	0-60 PSI, Absolute Pressure Reference, 1/4" NPTM, 316L SS, 5 ft. cable
PT-L1-C-5-PSIG-E5-5-P0-N0-M1-V0-K0-S0	0-5 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS, 5 ft. cable
PT-L1-C-30-PSIG-E5-5-P0-N0-M1-V0-K0-S0	0-30 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS, 5 ft. cable
PT-L1-C-100-PSIG-E5-5-P0-N0-M1-V0-K0-S0	0-100 PSI, Gauge Pressure Reference, 1/4" NPTM, 316L SS, 5 ft. cable
PT-L1-C-50-PSICG-E5-5-P0-N0-M1-V0-K0-S0	0-50 PSI, Compound Gauge Reference, 1/4" NPTM, 316L SS, 5 ft. cable
PT-L1-C-500-PSICG-E5-5-P0-N0-M1-V0-K0-S0	0-500 PSI, Compound Gauge Reference, 1/4" NPTM, 316L SS, 5 ft. cable
PT-L1-C-1000-PSIS-E5-5-P0-N0-M2-V0-K0-S0	0-1,000 PSI, Sealed Gauge Reference, 1/4" NPTM, 17-4 SS, 5 ft. cable
PT-L1-C-5000-PSIS-E5-5-P0-N0-M2-V0-K0-S0	0-5,000 PSI, Sealed Gauge Reference, 1/4" NPTM, 17-4 SS, 5 ft. cable
PT-L1-C-10000-PSIS-E5-5-P0-N0-M2-V0-K0-S0	0-10,000 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		Cable Lengths
		mA Output	VDC Output	
4-pin bayonet mating connector (E3)	509010	-10xx	-20xx	02, 05, 10, 25
4-pin female (M12) mating connector (E4)*	--	135407-000x		2 meters, 5 meters
6-pin circular mating connector (E1)	509110	-10xx	-20xx	02, 05, 10, 25
6-pin bayonet mating connector (E17)	509165	-10xx	-20xx	02, 05, 10, 25

*Note: 4-pin female (M12) must be ordered with 2 or 5 **meters** of cable. It is not available as mating connector only.



Model Configuration Options



Model Number: PT- _____ - C - _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____ - _____
A B C D E F G H I J K L

A. Operation

- ☐ **L1** 4-20 mA
- ☐ **L3** 0-5 VDC
- ☐ **L10** 0-10 VDC
- ☐ **L11** 1-6 VDC
- ☐ **L12** 1-5 VDC
- ☐ **L21** 1-10 VDC

B. Common Pressure Ranges - PSI*

- ☐ **5** ☐ **50** ☐ **200** ☐ **1000** ☐ **5000**
- ☐ **15** ☐ **60** ☐ **300** ☐ **2000** ☐ **10000**
- ☐ **30** ☐ **100** ☐ **500** ☐ **3000**

*Other ranges available. Please consult factory.

C. Unit of Measure

☐ PSI ▲	☐ kPa	☐ inHg
☐ bar	☐ inH₂O	☐ kgcm²
☐ mbar	☐ mmHg	☐ fsw

D. Pressure Type

- ☐ **G** Gauge
- ☐ **CG** Compound Gauge
- ☐ **V** Vac
- ☐ **A** Absolute
- ☐ **S** Sealed

E. Electrical Connection

Mating connector sold separately

- ☐ **E1** 6-pin circular
- ☐ **E3** 4-pin bayonet
- ☐ **E4** 4-pin M12 Micro connector
- ☐ **E5**▲ Pigtail with cable (specify length below)
- ☐ **E17** 6-pin bayonet

F. Electrical Cable Length

- ☐ _____ Number represents cable length, in 5-ft increments, included on E5 pigtail option above.
(ex. E5-10 represents pigtail with 10 ft. cable)

Note: ▲ Indicates this option is standard.

G. Process Connection

- ☐ **P0**▲ 1/4-18 NPTM
- ☐ **P4** 7/16 SAE male flush mount
- ☐ **P5** 1/4-18 NPTF
- ☐ **P7** 7/16-20 SAE male
- ☐ **P14** 1/8-27 NPTM
- ☐ **P16** PT 1/4 (BSPP) male
- ☐ **P22** G3/8 (3/8 BSPP) male
- ☐ **P23** G1/2 (1/2 BSPP) male
- ☐ **P30** High Pressure Sno Trik (M-250C, Autoclave male)
- ☐ **P54** 7/16-20 UNJF-3A male w/ cone

H. Accuracy

1-5,000 PSI

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

*Note: ±0.25% available at 10,000 psi for 4-20 mA output only.

10,000 PSI

- ☐ **N12** ±0.5%
- ☐ **N13** ±0.5% with NIST certification

I. Materials

- ☐ **M0** 15-5 SS (≥ 1k psi)
- ☐ **M1**▲ 316L SS (up to 5k psi)
- ☐ **M2** 17-4 SS (≥ 1k psi)

J. Vibration

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

K. Can Assembly Connections

	Can - Elec Conn.	Can - Process Conn.	E Options
☐ K0 ▲	Knurl	Loc-Tite	E1 - E5
☐ K1	Tamper Resist*	Loc-Tite	E1 - E5
☐ K2	Tamper Resist*	Weld	E1 - E5
☐ K3	Weld	Weld	E3, E17

* Tamper Resist: Smooth Nut with Loc-Tite

L. Temperature

- ☐ **S0**▲ Standard: 0° - 130°F (-17° - 54°C)
- ☐ **S1** Extended: -40° - 180°F (-40° - 82°C)
- ☐ **S4** Extended: 0° - 185°F (-17° - 85°C)