

2-WIRE[®] TRANSMITTER FOR USE WITH TRODEKS[®] PRESSURE TRANSDUCERS

CONVERTS mV, V, OR mA INPUT TO 4 TO 20 mA OUTPUT

PXTX-703

- ✓ Provides 1000 V Input-to-Output Isolation
- ✓ 16 Switch-Selectable Input Ranges
- ✓ 80% Zero and Span Adjustability Within Each Input Range
- ✓ 100 ms Response Time
- ✓ Rugged, EMI/RFI Shielded Housing

SPECIFICATIONS

Input Span: 16 ranges, switch selectable (see range chart)

Note: Bipolar span selection will move the unipolar range to reflect negative offset (20 mA = ± 10 mA)

Input Impedance:

Ranges 1 to 4: 5 M Ω , typical

Ranges 5 to 12: >200 k Ω

Ranges 13 to 16: 20 Ω , typical

Supply Voltage Range: 13 to 80 Vdc

Minimum Output Current: 3.3 mA, typical

Maximum Output Current: 24 mA, typical

Output Span (Fixed): 4 to 20 mA

Maximum Change in Supply Voltage Effect: 0.05% of span

Maximum Change in Load Effect: 0.05% of span

Loop Voltage Drop: 13 Vdc @ 20 mA

Output Current Limiting:

Active: 27 mA; fused (fixed): 0.25 A

Stability:

Zero: $\pm 0.02\%$ of span/ $^{\circ}\text{C}$ maximum ($\pm 0.05\%$, bipolar)

Span: $\pm 0.03\%$ of span/ $^{\circ}\text{C}$ maximum

Accuracy: Overall (includes best straight line, linearity, hysteresis and repeatability @ 25 $^{\circ}\text{C}$) $\pm 0.2\%$ of any adjusted span, maximum

Linearity: $\pm 0.1\%$ of range

Hysteresis and Repeatability: $\pm 0.05\%$ of range

Zero Adjustability:

80% turn-up of span (maximum)

Span Adjustability: 80% turn-down of full scale range (see range chart)

Response Time (63% Response): 100 ms, maximum

Output Ripple: 0.1% of span, rms, typical 0.5%, maximum

Normal-Mode Rejection:

16 dB @ 60 Hz

Common-Mode Rejection:

60 Hz: 80 dB; DC: 120 dB

Common-Mode Range: 60 Hz:

1000 Vrms; DC: 1000 Vdc

RFI Effect (1.5 W, 470 MHz at 1.7'): <1% of span error

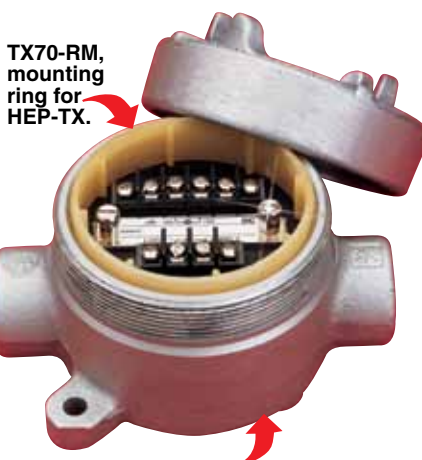
Isolation: 1000 Vrms maximum input to output, input to case, output to case

Temperature Range: -40 to 80 $^{\circ}\text{C}$ (-40 to 176 $^{\circ}\text{F}$)

Weight: 265 g (0.58 lb)



PXTX-703, shown actual size.



HEP-TX, explosion-resistant housing.

Both models shown smaller than actual size.

16 Switch-Selectable Ranges

Input Range	Input Limits	Minimum Span
1	0 to 100 mV	20 mV
2	0 to 200 mV	40 mV
3	0 to 316 mV	65 mV
4	0 to 632 mV	130 mV
5	0 to 1.78 V	360 mV
6	0 to 3.56V	710 mV
7	0 to 5.62V	1.2V
8	0 to 11.2V	2.3V
9	0 to 31.6V	6.4V
10	0 to 63V	12.6V
11	0 to 100V	20V
12	0 to 200V	40V
13	0 to 20 mA	4 mA
14	4 to 20 mA	3.2 mA
15	0 to 50 mA	10 mA
16	0 to 5 mA	1 mA

To Order

MODEL NO.	DESCRIPTION
PXTX-703	Two-wire transmitter, 16 switch-selectable input ranges
HEP-TX	Explosion-resistant housing (requires TX70-RM mounting ring)
TX70-RM	Mounting ring for HEP-PX head

Comes complete with operator's manual.

Ordering Example: PXTX-703, 2-wire transmitter, HEP-TX, explosion-resistant housing, TX70-RM, mounting ring.