



PRESSURE

STAINLESS STEEL PRESSURE TRANSMITTER

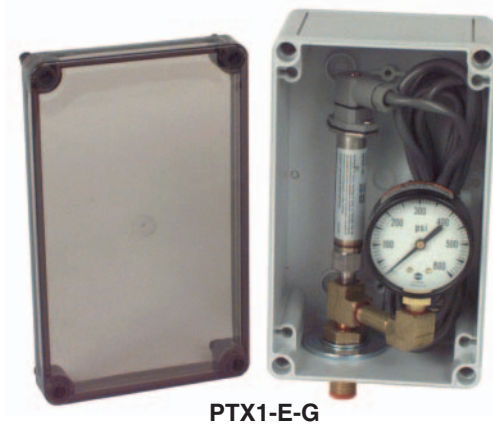
PTX1 SERIES

DESCRIPTION

The **PTX1 Series Stainless Steel Pressure Transmitter** utilizes a thin film strain-gauge bridge and stainless steel diaphragm to provide a highly accurate, stable means of measuring gauge pressures up to 2000 psig (13.79 MPa). Splash-proof cable connections protect the wiring, allowing the **PTX1 Series** to be mounted near the medium being measured. Optional indication is available as a digital display or as a 2" (5.1 cm) gauge.

FEATURES

- For steam, water, glycol, ammonia, refrigerants, etc.
- 1% full scale accuracy
- 200% proof pressure
- Wide range of pressures
- 4-20 mA output
- Reverse polarity protected
- Plug-in, splash-proof connector with 6' cable
- Stainless steel wetted parts
- Stainless steel case
- Optional watertight polystyrene enclosure
- Optional LCD/red digital indication
- Optional gauge available for mediums compatible with brass



PRESSURE

SPECIFICATIONS			
Supply voltage	10-30 VDC @ 25 mA	Connections	1/8" NPT male 316 stainless steel
Accuracy	±1% FS (full scale)	Enclosure	1/8" FNPT
Thermal effects*	±0.04%FS/°F zero and span	Enclosure dimensions	7.09" x 4.33" x 3.54" (18.0 x 11.0 x 9.0 cm)
Output	4-20 mA	Diaphragm	17-4 PH stainless steel
Max load	650Ω @ 24 VDC	Zero/Span	Factory adjustable ±10%
Overpressure		Weight	
Proof	200%	PTX1-xx	0.45 lb (0.20 kg)
Burst	800%	PTX1EG-xx	2.05 lb (0.93 kg)
Temp		* Multiply temperature coefficient by 300% on range numbers 01, 03, and 04 and by 150% on range numbers 02 and 05. See "Ordering Information" on next page for range numbers.	
Compensated	-20° to 160°F (-29° to 71°C)		
Operating	-40° to 200°F (-40° to 93°C)		
Response time	1 ms		
Case materials	304 stainless steel		

INSTALLATION
<p>Mount the PTX1 Series in a manner that protects it from steam or temperatures outside of its operating range. A Model PT steam pigtail syphon must be installed on all applications where steam is to be monitored. When monitoring the pressure of medium that is above or below the temperature operating range of the transmitter, the sensor should be isolated by a length of tubing. If 6" to 12" (15.2 to 30.5 cm) of brass tubing is used, temperatures up to 400°F (204°C) can be tolerated. See the "Technical Reference" section in the Kele catalog for information on "Steam Isolation and Temperature Protection."</p> <p>If the PTX1 Series is to be subjected to fluid hammer, pressure surges or pulsations, a Model 47 pressure snubber is recommended.</p>

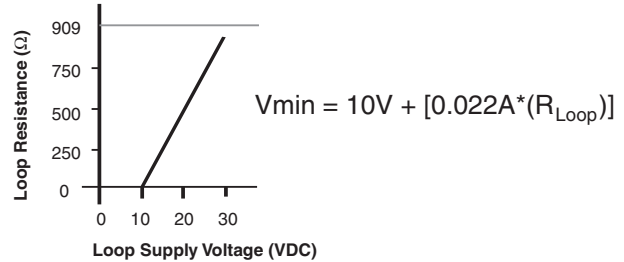
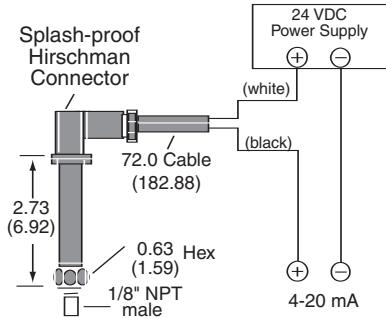


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STAINLESS STEEL PRESSURE TRANSMITTER PTX1 SERIES

WIRING

in
(cm)



Load Limitations 4-20 mA Output

ORDERING INFORMATION

MODEL	DESCRIPTION
PTX1	Pressure Transmitter with cable
PTX1E	Pressure Transmitter in watertight enclosure, SS fittings
PTX1E-G**	Pressure Transmitter in watertight enclosure, with gauge, brass fittings
PTX1E-LCD**	Pressure Transmitter enclosed (not watertight), with LCD, brass fittings
PTX1E-RED**	Pressure Transmitter enclosed (not watertight), with red LCD, brass fittings
PRESSURE RANGE psig (kPa)	
01	30" Hg VAC to 0 (-101.6-0)
02	30" Hg VAC to 15 (-101.6-103.4)
03	0-15 (0-130.4)
04	3-15 (20.7-103.4)
05	0-30 (0-206.9)
06	0-60 (0-413.7)
07	0-100 (0-689.5)
08	0-150 (0-1034.3)
09	0-200 (0-1379.0)
10	0-300 (0-2068.5)
11	0-500 (0-3447.5)
12	0-750 (0-5171.3)
13	0-1000 (0-6895.0)
14*	0-2000 (0-13790.0)
15	30" Hg VAC to 30 (-101.6 VAC to 206.9)
16	30" Hg VAC to 60 (-101.6 VAC to 413.7)

PTX1E-LCD - **07** *Example:* PTX1 Stainless steel pressure transmitter with 100 psig pressure range in enclosure with LCD indication

* Enclosed models not available in pressure ranges above 1000 psig

** Brass wetted parts; do not use with mediums that are not compatible with brass

Note: NIST certificate available; contact Kele.

RELATED PRODUCTS

47B, 47S
PT

Pressure snubbers (brass or stainless steel)
Steam pigtail syphon