



# PRESSURE

## STAINLESS STEEL PRESSURE TRANSMITTER PTX1 SERIES

### DESCRIPTION

The **Kele 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, and more
- 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



PTX1-E-07



PTX1-07

### SPECIFICATIONS

<b>Supply Voltage</b>	10 to 36 VDC @ 22 mA max
<b>Accuracy</b>	±1% Full Scale
<b>Signal Output (Current)</b>	4-20 mA @ 636Ω (loop powered)
<b>Sensor Type</b>	Polysilicon resistive
<b>Display</b>	(optional) 2" Dial gauge or 0.5" Digital w/3.5 digits
<b>Overpressure (Burst)</b>	200% of rated pressure
<b>Max Operating Pressure (Proof)</b>	800% of rated pressure
<b>Operating Temperature</b>	-40° to 200°F (-40° to 93°C)
<b>Compensated Temperature Range</b>	-20° to 160°F (-29° to 71°C)
<b>Operating Humidity</b>	0 to 95% Non-condensing
<b>Wetted Parts</b>	Brass, 17-4 SS
<b>Media Compatibility</b>	H <sub>2</sub> O, Glycol, Steam, Refrigerant, Air,

<b>Process Connection</b>	Direct-1/8" MNPT, Encl. bulkhead-1/8" FNPT
<b>Wiring Terminations</b>	2-24 AWG pigtail in 72" (182 cm) cable
<b>Mounting</b>	By process connection or optional enclosure
<b>Enclosure Rating</b>	304 SS, NEMA 4, (Optional) Enclosure NEMA 4
<b>Dimensions</b>	5.11"H x 5.11"W x 2.95"D, (13.0 x 13.0 x 7.5 cm)
<b>Weight</b>	0.45 lb (0.2 Kg), with Enclosure 2.1 lb (0.93 Kg)
<b>Warranty</b>	1 year

### INSTALLATION

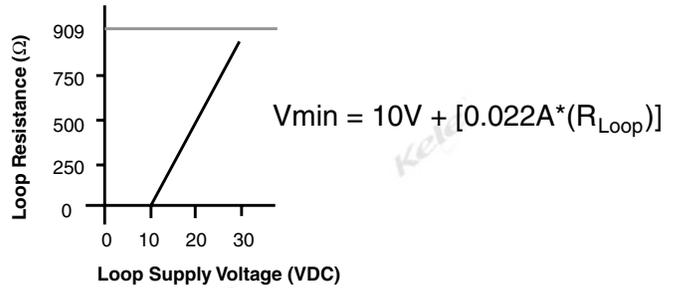
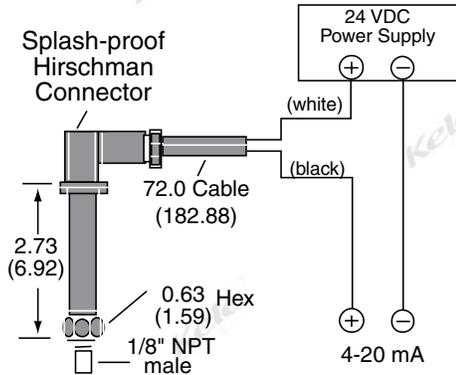
Mount the **PTX1 Series** in a manner that protects it from steam or temperatures outside of its operating range. A Model PT steam pigtail syphon must be installed on all applications where steam is to be monitored. When monitoring the pressure of medium that is above or below the temperature operating 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 for information on Steam Isolation and Temperature Protection.

If the **PTX1 Series** is to be subjected to fluid hammer, pressure surges, or pulsations, a Model 47 pressure snubber is recommended.



### WIRING

in  
(cm)



**Load Limitations 4-20 mA Output**

### ORDERING INFORMATION

MODEL	DESCRIPTION
PTX1	Pressure transmitter with cable
PTX1E	Pressure transmitter in watertight enclosure, stainless steel 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
<b>PRESSURE RANGE psig (kPa)</b>	
01	30" Hg Vacuum to 0 (-101.6 Vacuum to 0)
02	30" Hg Vacuum to 15 (-101.6 Vacuum to 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 (0-13,790.0)
15	30" Hg Vacuum to 30 (-101.6 Vacuum to 206.9)
16	30" Hg Vacuum to 60 (-101.6 Vacuum 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

<b>47B-1</b>	Brass piston style snubber
<b>47S-1</b>	Stainless steel piston style snubber
<b>DCP-1.5-W</b>	Power supply, 24 VAC IN to 24 VDC OUT
<b>DCPA-1.2</b>	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
<b>PT</b>	1/4" pigtail syphon with fittings