



PRESSURE

STAINLESS STEEL PRESSURE TRANSMITTER PSS2 SERIES

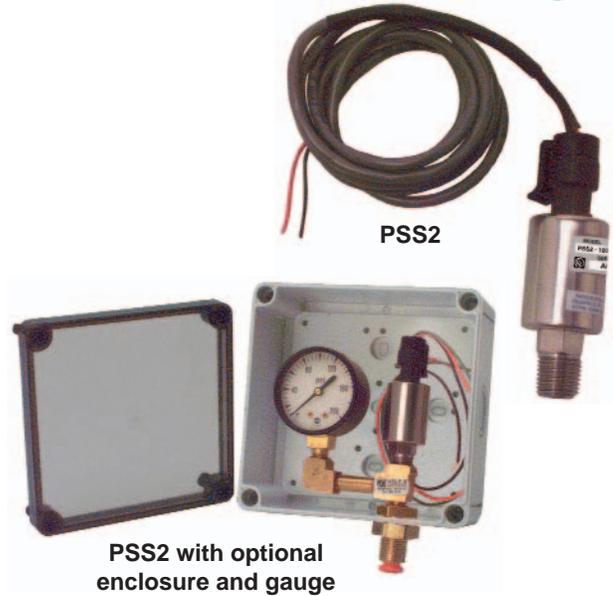


DESCRIPTION

The Kele **PSS2 Series Stainless Steel Pressure Transmitter** is highly accurate and compact, which makes it ideal for HVAC, building automation, and process gauge pressure applications. The patented, ceramic capacitive sensing element contains an integral, custom hybrid circuit signal conditioner that provides temperature compensation for a stable output. A splash-proof electrical connector is provided for ease of installation. Eleven standard ranges are available for a wide variety of applications.

FEATURES

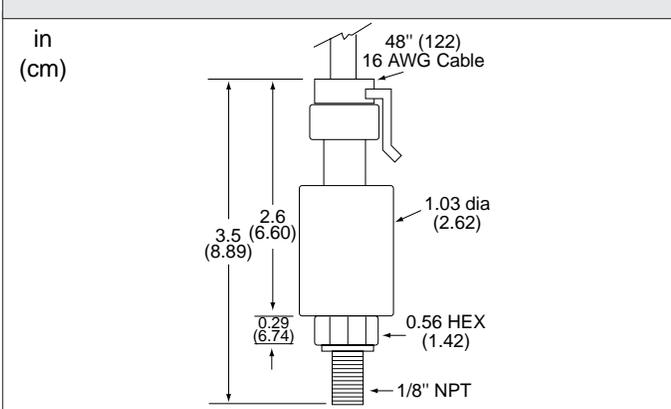
- **Splash-proof plug-in electrical connector**
- **For steam, water, glycol, refrigerants, etc.**
- **4-20 mA output**
- **316 stainless steel wetted parts**
- **Wide range of pressures**
- **High overpressure capability**
- **Ceramic capacitive sensing element**



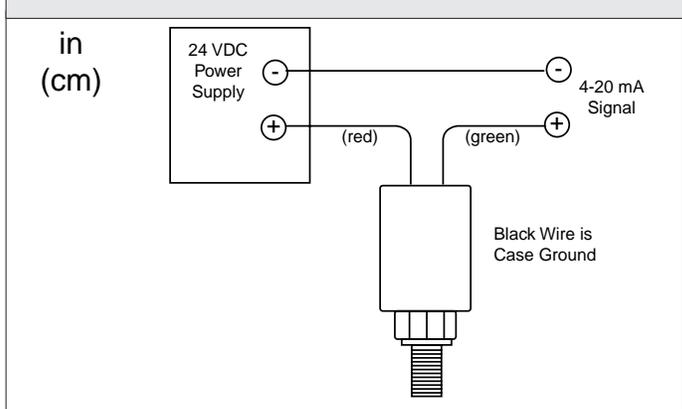
SPECIFICATIONS

Supply voltage	9-32 VDC	Burst	15-75 psig (103.4-517.1 kPa), 1000 psig (6895 kPa), 100-1000 psig (689.5-6895 kPa), 3000 psig (20,685 kPa)
Accuracy		Operating temp	-29° to 248°F (-34° to 120°C)
Non-linearity (BFSL)	±0.4% max of span	Neoprene seal	-40° to 257°F (-40 to 125°C)
Hysteresis/Repeatability	±0.15 max of span	Ethylene-Propylene	-40° to 257°F (-40 to 125°C)
Thermal effects	5° to 212°F (-15° to 100°C), ±0.05% of span per °C, -40° to 257°F (-40° to 125°C) ±0.06% of span per °C	Effects	±0.027% of span per °F
Stability (one year)	±0.05% typical of span	Wetted parts	96% alumina ceramic, plated with gold and platinum
Response time	<15 msec	Connections	
Output		Pressure	1/8" MNPT, 316 stainless steel
Signal	4-20 mA	Electrical	Splash-proof packard disconnect, 16 AWG cable
Max load	700Ω @ 24 VDC	Enclosure dimensions	5.11" x 5.11" x 2.95" (13.0 x 13.0 x 7.5 cm)
Overpressure		Weight	0.28 lb (0.13 kg)
Proof	15-75 psig (103.4 to 517.1 kPa), 5 x range; 100-500 psig (689.5-3447.5 kPa), 3 x range; 750-1000 psig (5171.3- 6895 kPa), 1.5 x range		

DIMENSIONS



WIRING





PRESSURE

STAINLESS STEEL PRESSURE TRANSMITTER PSS2 SERIES

INSTALLATION

Mount the **PSS2 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 in all applications where steam is to be monitored. When monitoring the pressure of a 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 **PSS2 Series** is to be subjected to fluid hammer, pressure surges, or pulsations, a Model 47 pressure snubber is recommended.

CAUTION: Not for use with Ammonia.

ORDERING INFORMATION

MODEL	DESCRIPTION
PSS2	Stainless Steel 4-20 mA Pressure Transmitter
	PRESSURE RANGE psig (kPa)
15	0-15 (0-103.4)
30	0-30 (0-206.9)
50	0-50 (0-344.8)
75	0-75 (0-517.1)
100**	0-100 (0-689.5)
150**	0-150 (0-1034)
200**	0-200 (0-1379)
300**	0-300 (0-2068)
500**	0-500 (0-3497)
750	0-750 (0-5171)
1000	0-1000 (0-6895)
	OPTIONS (leave blank for no options)
E	Water-tight enclosure (with stainless steel bulkhead fitting)
G*	Enclosed with pressure gauge (watertight with transparent cover)
R	For refrigerant service (100, 150, 200 and 300 psig ranges only)
LCD	Model LPI-1C LCD display with enclosure (not watertight)
RED	Model LPI-1CR red digital display with enclosure (not watertight)

PSS2 - 100 - G

Example: PSS2-100-G Stainless steel pressure transmitter with a 4-20 mA output over the range of 0-100 psig, installed in a watertight enclosure with a pressure gauge and transparent cover

* Gauge option is only for those mediums compatible with brass.

** For refrigerant service add -R to these range numbers.

RELATED PRODUCTS

47B, 47S Snubbers (brass or stainless steel)
Model PT Steam pigtail syphon