

# SPX2242



## Features

- HART™ digital communication
- Better than  $\pm 0.25\%$  combined error
- 4 - 20 mA loop-powered output
- 0 - 250 to 0 - 30,000 psi
- Explosion Proof, Intrinsically Safe/ATEX approved
- Meets PED and CE requirements

## Benefits

- Configurable via handheld
- Precise repeatable pressure measurements
- Output supplied directly to DCS or PLC
- Customer-defined pressure ranges
- Approved for hazardous environments
- Meets new EC requirements

## Description

The SPX2242 is a smart 4 - 20 mA pressure transmitter designed for use in hazardous locations. The SPX2242 is an all welded construction that features a 1/2-20 UNF thread for installation in standard transducer mounting holes. Optional thermocouple or RTD configurations are available to provide melt temperature. The SPX2242E has explosion proof approval for Class 1, Division I, Groups A, B, C & D. The explosion proof model employs a conduit fitting. The SPX2242S is approved for ATEX/Intrinsically Safe II 1 G 100a Eex ia IIC, Zone 0 and 1. The ATEX/Intrinsically safe models can be supplied with either a conduit fitting or a hermetically sealed 6 pin Bendix connector.

## Specifications

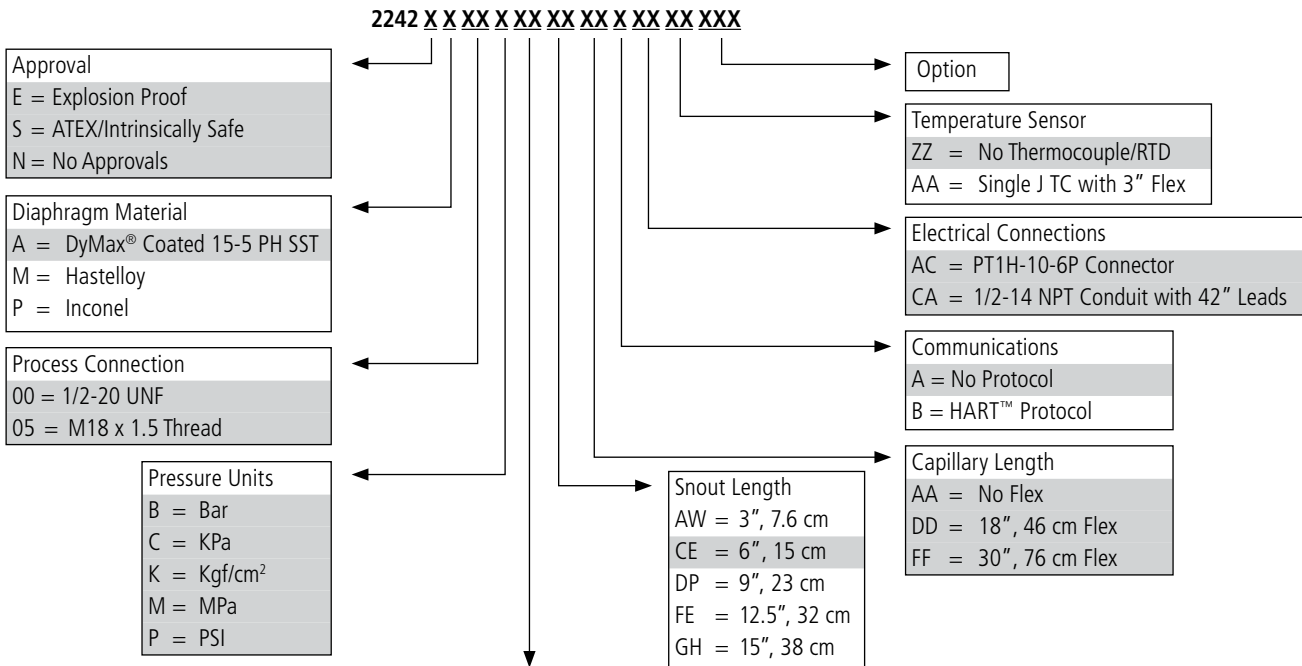
### PERFORMANCE CHARACTERISTICS

<b>Output:</b>	4 - 20 mA, with optional HART™
<b>Input Voltage:</b>	16 - 36 Vdc (Std); 16 - 30 Vdc (ATEX/IS app)
<b>Accuracy:</b>	± 0.25% FSO combined error ± 0.5% FSO for ranges below 1,500 psi (Including Linearity, Repeatability & Hysteresis)
<b>Repeatability:</b>	± 0.1% FSO
<b>Rerangeability:</b>	3:1 Turndown
<b>Over Pressure:</b>	2X FSO or 35,000 psi, whichever is less
<b>Zero Balance Adjustment Range:</b>	-40% to +10% -80% to +20% for < 500 psi
<b>Load Resistance:</b>	500 Ω @ 26 Vdc, 1,000 Ω @ 36 Vdc

### TEMPERATURE & MECHANICAL CHARACTERISTICS

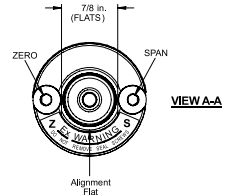
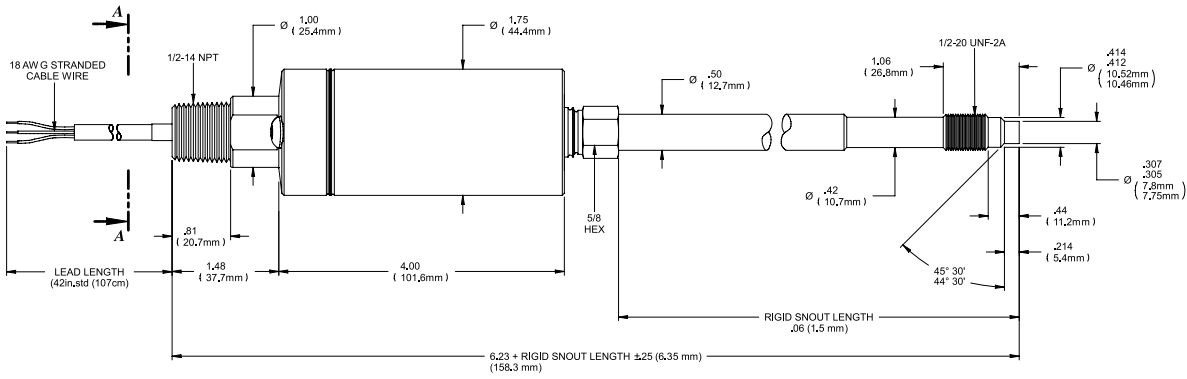
<b>Max Diaphragm Temp:</b>	750°F (400°C)
<b>Zero Shift (temp chg):</b>	15 psi/100°F Typical (27 psi/100°C)
<b>Electronics Operating Temp:</b>	-20° to 185°F (-29° to 85°C)
<b>Effects over Compensated Temp Range of 0° to 150°F (-18° to 65°C), Zero &amp; Span:</b>	0.01% FS/°F max (0.02% FS/°C max)
<b>Mounting Torque:</b>	500 inch/lbs. max
<b>Standard Wetted Parts:</b>	Dymax® coated 15-5 PH SST

## Ordering Guide



Pressure Range					
13*	=	250	psi	17.5	Bar
14	=	500	psi	35	Bar
15	=	750	psi	50	Bar
16	=	1,000	psi	70	Bar
17	=	1,500	psi	100	Bar
20	=	3,000	psi	200	Bar
21	=	5,000	psi	350	Bar
22	=	7,500	psi	500	Bar
23	=	10,000	psi	700	Bar
24	=	15,000	psi	1000	Bar
25	=	20,000	psi	1400	Bar
27	=	30,000	psi	2000	Bar

\*Availability in M18 x 1.5 Thread only



Cable Wiring		
3 + Conductor	Color	Function
	RED	E+
	BLACK	E-
	GREEN	GROUND
	ORANGE	Rcal +
	BLUE	Rcal -

