



SPX2241

Features

- HART™ digital communication
- Better than +/- 1.0% combined error
- 4 - 20 mA loop-powered output
- 0 - 250 to 0 - 1,000 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 SPX2241 is a smart 4 - 20 mA pressure transmitter designed for use in hazardous locations. The SPX2241 is an all welded construction that features a large diaphragm and a mounting flange for easy installation. The SPX2241E has explosion proof approval for Class 1, Division I, Groups A, B, C & D. The explosion proof model employs a conduit fitting. The SPX2241S is approved for ATEX/Intrinsically Safe II 1 G 100a Eex ia IIC, Zones 0 and 1. ATEX/intrinsically safe models can be supplied with either a conduit fitting or a 6 pin hermetically sealed bendix connector.

Specifications

PERFORMANCE CHARACTERISTICS

- Output:** 4 - 20 mA, with optional HART™
- Input Voltage:** 16 - 36 Vdc (Standard)
16 - 30 Vdc (ATEX/Intrinsically Safe Applications)
- Combined Error:** +/- 1.0% FSO
(Including Linearity, Repeatability & Hysteresis)
- Repeatability:** +/- 0.1%FSO
- Rerangability:** 3:1 Turndown
- Over Pressure:** 2 X FSO
- Zero Balance Adjustment Range:** -40% to +10%;
-80% to +20% for < 500 psi
- Gain Span Adjustment Range:** +/- 2% FSO maximum
- Load Resistance:** 500 Ω @ 26 Vdc, 1000 Ω @ 36 Vdc

TEMPERATURE & MECHANICAL CHARACTERISTICS

- Max Diaphragm Temperature:** 600°F (315°C)
- Zero Shift (due to temperature change):**
1 psi/100°F Typical (from 75 to 450°F)
2 psi/100°F Typical (from 450 to 600°F)
- Electronics Operating Temperature:**
-20° to 185°F (-29° to 85°C)
- Effects over Compensated Temperature Range of 0° to 150°F (-18° to 65°C) - Zero & Span (each):**
0.01% FS/°F max (0.02% FS/°C max)
- Mounting Bolt Torque:** 125 inch/lbs. maximum
- Standard Wetted Parts:** DyMax™ coated 15-5 PH SST

