SPX4352

Features

- HART™ digital communication
- Better than +/- 0.25% combined error
- 4 - 20 mA loop-powered output
- 0 - 500 to 0 -30,000 psi
- ATEX/Intrinsically Safe 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 SPX4352 is a smart 4 - 20 mA pressure transmitter designed for use in hazardous locations. The SPX4352 features a 1/2-20 UNF threaded jam nut for installation in space restricted locations and can be supplied with a variety of electrical connections. These amplified transmitters eliminate the need for external signal conditioning. All models can interface directly with distributed control systems, PLCs, computers and similar high level control devices. The SPX4352S is ATEX/Intrinsically Safe approved for II 1 G 100a Eex ia IIC, Zones 0 and 1.

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: +/- 0.25% FSO,
+/- 0.5% FSO for ranges below 1,500 psi
(Including Linearity, Repeatability & Hysteresis)
Repeatability: +/- 0.1%FSO
Rangability: 3:1 Turndown
Over Pressure: 2 X FSO or 35,000 psi, whichever is less
Zero Balance Adjustment Range: -40% to +10%;
-80% to +20% for ‹ 500 psi

Load Resistance: 500 Ω @ 26 Vdc, 1000 Ω @ 36 Vdc

TEMPERATURE & MECHANICAL CHARACTERISTICS

Max Diaphragm Temperature: 750°F (400°C)
Zero Shift (due to temperature change):
15 psi/100°F Typical (27 psi/100°C)
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 Torque: 500 inch/lbs. maximum
Standard Wetted Parts: Dymax® coated 15-5 PH SST

ICS Schneider Meßtechnik GmbH
Briesestraße 59
D-16562 Bergfelde / Berlin

Tel.: 03303 / 504066
Fax: 03303 / 504068

info@ics-schneider.de
www.ics-schneider.de

Ordering Guide

4352 X X XX X XX XX XX X XX XX XXX

Approval
S = ATEX/Intrinsically Safe
N = No Approvals

Diaphragm Material
A = DyMax Coated 15-5 PH SST
M= Hastelloy
P = Inconel

Process Connection
00 = 1/2-20 UNF
05 = M18 x 1.5 Thread

Pressure Units
B = Bar
C = KPa
K = Kgf/cm²
M = MPa
P = PSI

Option

Temperature Sensor
ZZ = No Thermocouple/RTD

Electrical Connections
AA = PT02A-10-6P Connector

Communications
A = No Protocol
B = HART™ Protocol

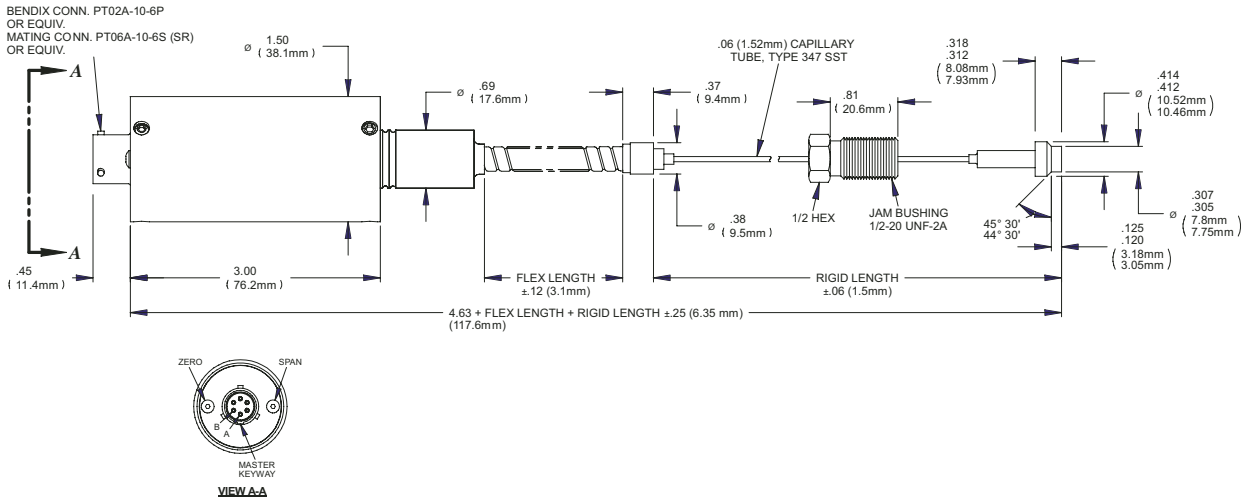
Stem Length
DD = 18", 46 cm Flex
FF = 30", 76 cm Flex

Exposed Capillary
EA = 10", 25.4 cm

Pressure Range

14	= 500	psi	35	Bar	35	Kgf/cm²	3.5	MPa
15	= 750	psi	50	Bar	50	Kgf/cm²	5	MPa
17	= 1,500	psi	100	Bar	100	Kgf/cm²	10	MPa
20	= 3,000	psi	200	Bar	200	Kgf/cm²	20	MPa
21	= 5,000	psi	350	Bar	350	Kgf/cm²	35	MPa
22	= 7,500	psi	500	Bar	500	Kgf/cm²	50	MPa
23	= 10,000	psi	700	Bar	700	Kgf/cm²	70	MPa
24	= 15,000	psi	1000	Bar	1000	Kgf/cm²	100	MPa
25	= 20,000	psi	1400	Bar	1400	Kgf/cm²	140	MPa
27	= 30,000	psi	2000	Bar	2000	Kgf/cm²	200	MPa

Shaded sections refer to standard configurations. Accuracy may be affected if non-standard configurations are used. For additional options please consult factory.



All dimensions are inches (mm).

Dynisco LLC
38 Forge Parkway
Franklin, MA 02038 (USA)

Phone +1 508 541 9400
Fax +1 508 541 6206
Email infoinst@dynisco.com

Hotline **1-800-Dynisco**

www.dynisco.com

ICS Schneider Meßtechnik GmbH
Briesestraße 59
D-16562 Bergfelde / Berlin

Tel.: 03303 / 504066
Fax: 03303 / 504068

info@ics-schneider.de
www.ics-schneider.de