

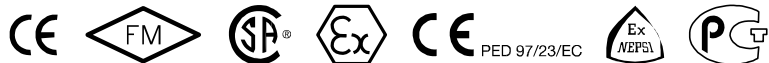
SPX-L Series Model 5390

Button Seal, Taylor Bulb Replacement Pressure Transmitter with DynaLarity™



Features

- Large diaphragm and optional split flange for easier installation
- Improved accuracy with DynaLarity™ to a combined error of +0.20%
- HART™ digital communications
- ATEX Intrinsically Safe for hazardous environments
- FM & CSA approved Explosion Proof for hazardous environments
- Meets PED and CE requirements for European standards
- 0 – 25 to 0 – 10,000psi customer-defined ranges
- 4-20 mA loop powered output supplied directly to DCS or PLC



Description

The SPX-L is a smart 4-20 mA button seal, Taylor Bulb replacement pressure transmitter designed for use in hazardous locations. The SPX-L includes the Dynisco innovation, DynaLarity™, an advanced algorithm that linearizes off-sets initiated by materials and process variables. DynaLarity™ improves linearity by 80% and combined accuracy by 25% over the base model SPX. The SPX5390 is an all welded construction that features a large diaphragm with optional split flange for easier installations. Optional thermocouple or RTD configurations are available to provide melt temperature. The SPX5390E is approved for explosion proof for Class 1, Division I, Groups A, B, C & D, and is supplied with a conduit fitting. The SPX5390S is approved for ATEX Intrinsically Safe II 1 G 100a Eex ia IIC, Zone 0 and 1. The ATEX/IS models can be supplied with either a conduit fitting or a hermetically sealed 6 pin bendix connector.

Specifications

PeRFoRMance

output: Voltage	4-20mA, with optional HART™
Input: combined	16-36Vdc (std); 16-30Vdc (ATEX and IS app)
accuracy:	±0.20% FSO
Repeatability:	±0.1% FSO
Rangeability:	3:1 turndown
over Pressure Protection:	2X FSO for 7,500psi 1.5x FSO for 10,000psi
Zero Balance adjustment Range:	-40% to +10%; -80% to +20%, <500psi
Gain Span adjustment Range:	±2% FSO, max
Load Resistance:	500 @26Vdc; 1,000 @36Vdc
effects over compensated Temp Range (0° to 150°F (-18° to 65°C), Zero & Span):	0.01% FS/°F, max (0.02% FS/°C, max)

Mechanical

Diaphragm Temperature Limit:	600°F (315°C), max
Zero Shift (temp chg):	1psi/100°F, typical (75 to 450°F) 2psi/100°F, typical (450 to 600°F)
electronics operating Temperature:	-20 to +185°F (-29 to 85°C)
Mounting Torque:	125 in/lbs, max
Wetted Parts (std):	DyMax™ coated 15-5 PH SST
Weight, net:	5.0 lbs (2.27 Kg)
Display:	Model SPXD available

All dimensions are in inches (millimeters).

aPPRoVaLS & ceRTIFicaTIoNS (secured or pending)

Marks, certifications, Registrations: CE, CE-PED, GOST-R, NEPSI

agency approvals:

FM & cSa (ex): Class 1, Div 1, Groups A, B, C, D (conduit fitting)

aTeX (IS): II 1G 100aEex ia IIC, Zones 0, 1

<http://www.aplus-hmi.com/>

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