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E-PSTxxxIS

Intrinsically Safe Pressure Sensor Transmitter

DESCRIPTION

The E-PSTxxxIS intrinsically safe pressure transmitter is exceptionally stable and is virtually unaffected by shock, vibration, or orientation. Performance is directly traceable to NIST standards, and a calibration certificate* is available for each unit upon request. These intrinsically safe (IS) transmitters are ideal for monitoring pressures in explosive atmospheres with barrier.

FEATURES

- Class I, Division 1, Groups C, D;
- Class II, Division 1, Group G; Class III Nonincendive for Class I, Division 2, Groups A, B, C, and D
- 0.5% accuracy, all ranges
- 4-20 mA, loop powered
- Ranges from 100-3000 psig (690-20,685 kPa)



SPECIFICATIONS

Supply Voltage 10-36 VDC Accuracy ±0.5% full scale Output Signal 4-20 mA @ 650Ω **Entity Parameters** Vmax=30V, Imax=100mA, Po=1 W, Ci=50nf, Li=0µh Thermal Effect ±0.03 full scale/°F zero and span Overpressure Limits (F.S.) 15-2000: 3000-5000:

200% (proof), 800% (burst) 150% (proof), 300% (burst) 120% (proof), 150% (burst) 7500-20.000: **Temperature Compensation**

-20° to 160°F (-29° to 71°C)

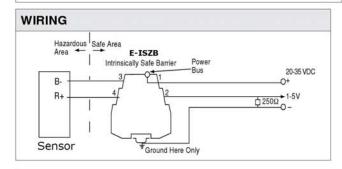
Operating Temperature -20° to 180°F (-29° to 82°C)

Response Time Construction **Process Connection** Diaphragm Material Zero Span Adjust **Dimensions** Area

Weight Approvals 5 ms 304 stainless steel case 1'8" BNPT male 316 stainless steel 17-4 PH stainless steel Field adjustable ±10% 4" L x 5/8" dia (10.2 x 1.6 cm)

Intrinsically safe Class I, Division 1, Groups C, D; Class II, Division 1, Groups G; Class III 0.65 lb (0.29 Kg)

UL, FM



CAUTION: Intrinsically safe devices require the use of an intrinsic safety barrier when applied in hazardous locations. Provide wiring and grounding strictly in accordance with manufacturer's instructions. When a transmitter is combined with the E-ISZB intrinsic safety barrier, total cable capacitance between the two must be limited to 0.12 µF. Total cable inductance must be limited to 4.0 mH (equivalent to 2700'/823m maximum Belden™ #8760 18/2 shielded twisted pair cable 0.18 µH/FT, 44 pF/FT).

ORDERING INFORMATION

MODEL E-PST100IS	DESCRIPTION 4-20 mA intrinsically safe pressure transmitter 0-100 psig (690 kPa)
E-PST200IS	4-20 mA intrinsically safe pressure transmitter 0-200 psig (1379 kPa)
E-PST500IS	4-20 mA intrinsically safe pressure transmitter 0-500 psig (3448 kPa)
E-PST1000IS	4-20 mA intrinsically safe pressure transmitter 0-1000 psig (6895 kPa)
E-PST3000IS	4-20 mA intrinsically safe pressure transmitter 0-3000 psig (20,685 kPa)

Note: The E-PSTxxxIS must be used in conjunction with an E-S420MA-24V (sold separately) to connect it to an E-xD for monitoring pressure.

 Calibration Certificate must be requested at the time the sensor is ordered. Additional processing charges may be incurred.