

# ENVIROMUX-PSTxxxIS

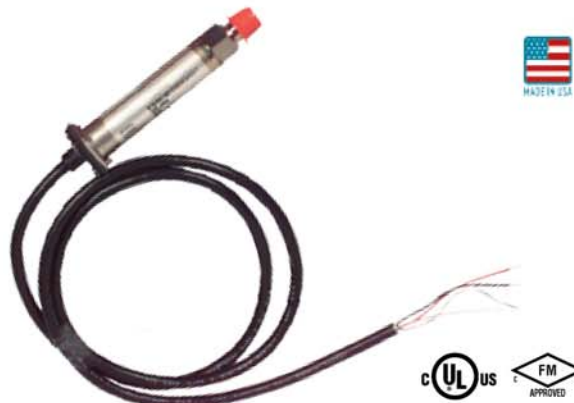
## Intrinsically Safe Pressure Sensor Transmitter

### DESCRIPTION

The ENVIROMUX-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)

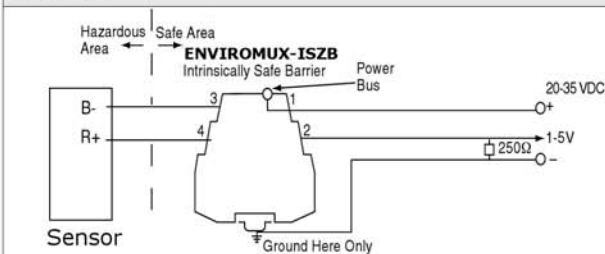


### SPECIFICATIONS

<b>Supply Voltage</b>	10-36 VDC
<b>Accuracy</b>	±0.5% full scale
<b>Output Signal</b>	4-20 mA @ 650Ω
<b>Entropy Parameters</b>	Vmax=30V, Imax=100mA, Po=1 W, Ci=50nf, Li=0μh
<b>Thermal Effect</b>	±0.03 full scale/°F zero and span
<b>Overpressure Limits (F.S.)</b>	
15-2000:	200% (proof), 800% (burst)
3000-5000:	150% (proof), 300% (burst)
7500-20,000:	120% (proof), 150% (burst)
<b>Temperature Compensation</b>	-20° to 160°F (-29° to 71°C)
<b>Operating Temperature</b>	-20° to 180°F (-29° to 82°C)

<b>Response Time</b>	5 ms
<b>Construction</b>	304 stainless steel case
<b>Process Connection</b>	1/8" BNPT male 316 stainless steel
<b>Diaphragm Material</b>	17-4 PH stainless steel
<b>Zero Span Adjust</b>	Field adjustable ±10%
<b>Dimensions</b>	4" L x 5/8" dia (10.2 x 1.6 cm)
<b>Area</b>	Intrinsically safe Class I, Division 1, Groups C, D; Class II, Division 1, Groups G; Class III
<b>Weight</b>	0.65 lb (0.29 Kg)
<b>Approvals</b>	UL, FM

### WIRING



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

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

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