

GXR Series

Hazardous Location Pressure Transmitter



FM, CSA Ex Approvals October 2002

Designed for hazardous locations

Senex's GXR Series Pressure Transmitter is designed for use in hazardous locations. The GXR's entirely welded 316L SST construction is hermetically sealed, and Factory Mutual and Canadian Standards Association Explosion Proof certification are expected by October 2002.

Manufactured for reliable service in aggressive environments

The GXR is manufactured for reliability in aggressive environments where other transmitters fail. Senex's automated weld procedures, extreme environmental burn in, and the mounting of our electronics to withstand the most severe shock and vibration applications are all geared toward safety and reliability. Additional EMI/RFI filtering with surge protection add to the performance of the GXR.

Alternate materials for service in corrosive environments

For corrosive environments where 316L or 15-5 SST are not best suited, the GXR is available in Hasteloy C276, C22 or Inconel 718.

Senex's Customer Service

Each GXR transmitter is shipped within 1-2 Weeks ARO with a NIST traceable calibration certificate.

Low Cost

Possible Switch Replacement



Standard Features

*Hermetically Sealed Package
±0.25% FSO Static Accuracy
0-3 psi through 0- 15,000 psi
Low Cost; Starting @ \$220.00*


Available Options

*±0.1% FSO Static Accuracy
±0.5% FSO Thermal Error Band
Hasteloy or Inconel alt. materials
Low power*

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Formerly Known As:  Hi-Tech Instrument Corporation

GXR Series Pressure Transmitter



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0-3 psi through 0-15,000 psi

Product Specifications

Electrical

Excitation	
GXR1	2-15 Vdc
GXR2 & GXR3	8-38 Vdc*
Output	
GXR	1-2 mV/V*
GXR2	0-5 Vdc*
GXR3	4-20 mAdc
Zero Balance	= ±1% FSO
FSO Setting	= ±1% FSO
Resolution	Infinite (±.001% FSO usable)
Response Time	
GXR1	< 1mS
GXR2 & GXR3	< 5 mS
Insulation Resistance	1000 MO @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	= ±.002% FSO per V input (GXR2 & GXR3)
EMI/RFI	Internal Filtering (GXR2 & GXR3)
Short Circuit Protected	Up to 40 Vdc (GXR2 & GXR3)

Mechanical

Pressure Ranges	0-3 through 0-15k psi (Customer may specify any range/eng. unit FOC) (Absolute, vacuum, compound available options)
Proof Pressure	2X Full Scale*
Burst Pressure	5X Full Scale*
Materials	
Wetted Parts*	316 & 15-5 SST*
Non-wetted Parts	316 SST plus electrical connector*
Pressure Port	¼" -NPT Female*
Electrical Connector	NEMA 4X cable exit with 24" of cable*
Dimensions	per outline below
Weight	nominal 15 oz

Environmental

Compensated Temp Range	0 to 170 °F
Operating Temp Range	-40 to 200 °F
Storage Temp Range	-40 to 250 °F

Performance

Static Accuracy	= ±0.25% FSO* (BFSL, RSS)* (combined effects of non-linearity, hysteresis & repeatability)
Repeatability	= ±0.05% FSO
Temperature Effects	= ±1.5% FSO over comp range* (combined effects of Zero & FSO with reference at 70°F)
Long Term Stability	= ±0.25% FSO per year

Outline

