

EXS Series



Smart Pressure Transmitter

Designed for Hazardous Locations

Designed for hazardous locations

Senex's EXS Series Pressure Transmitter is designed for use in hazardous locations. The EXS's entirely welded 316LSST construction is hermetically sealed, and Factory Mutual and Canadian Standards Association Explosion Proof certification are pending.

Certified Hart Protocol

The EXS is certified by the Hart foundation. The EXS will communicate with any host computer system conforming to Hart protocol.

Alternate materials for service in corrosive environments

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

Senex's Customer Service

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

Hart Protocol



Standard Features

Hermetically Sealed Package

±0.075% FSO Static Accuracy

0-50 through through 0-20,000 psi

10:1 Rangeability

Communications via host computer system or hand-held PDA's

Low Cost; Starting @ \$550.00



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EXS Series Pressure Transmitter



0-100 psi through 0-20k psi
Low-Cost Explosion Proof Process Transmitter

Product Specifications

Electrical

Excitation	24-40 Vdc
Output	4-20 mA _{dc} ; Hart Protocol
Zero Balance	≤ ±.5% FSO
FSO Setting	≤ ±.5% FSO
Resolution	Infinite (±.001% FSO usable)
Response Time	<25 mS
Insulation Resistance	1000 MΩ @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 50 mS
Power Supply Effect	≤ ±.002% FSO per V input
EMI/RFI	Internal Filtering
Short Circuit Protected	Up to 40 Vdc (EXS2 & EXS3)

Mechanical

Pressure Ranges	0-100 through 0-20k psi (Customer may specify any range/eng. unit FOC) (Absolute, vacuum, compound available options)
Rangeability:	5X Full Scale
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

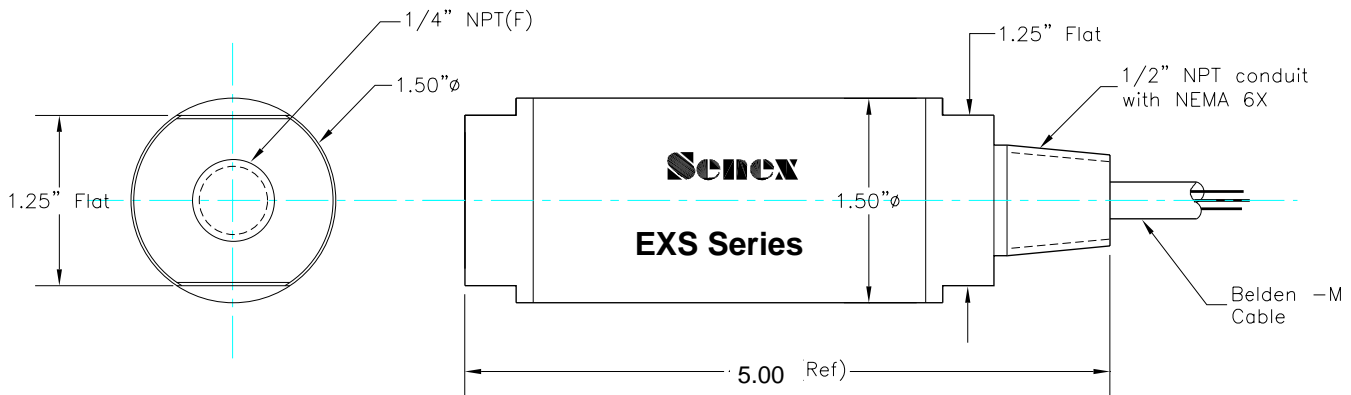
Environmental

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

Performance

Static Accuracy	≤ ±0.1% FSO* (BFSL, RSS)* (combined effects of non-linearity, hysteresis & repeatability)
Repeatability	≤ ±0.1% FSO
Temperature Effects	≤ ±0.5% FSO over comp range* (combined effects of Zero & FSO with reference at 70 °F)
Long Term Stability	≤ ±0.25% FSO per year

*Options Available



Standard Wiring:

Model	Output	+ Power	- Power	+ Signal	- Signal
EXS5	4-20 mA _{dc} 2 Wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

Senex Corporation reserves the right to change specifications without prior notification. Please contact the factory for the latest revision.
Data Sheet EXS-04 Rev A