XPRO® • *LOW COST PRESSURE TRANSMITTER*

APPLICATIONS

- FREON® AND AMMONIA REFRIGERATION
- PROCESS CONTROL
- FLOW DETECTION
- PNEUMATIC SYSTEMS
- WATER RESOURCE MANAGEMENT
- LIQUID LEVEL MEASUREMENT

The XPRO® pressure transmitter provides both the instrument engineer and OEM designer with a reliable and affordable measurement. The 4-20 mA output signal is particularly suited for long cable runs in electrically noisy environments.

The XPRO's silicon strain gages are mounted on a beam coupled to a 300 series stainless steel diaphragm for maximum isolation from thermal transients. The pressure cavity is a brazed assembly of 300 series stainless steel with no elastomer seals or adhesive bonds to corrode or deteriorate.

The XPRO is recognized by Underwriters Laboratories as an intrinsically safe* device for use in hazardous locations.

***When used with approved barriers.**

FEATURES	*BENEFITS*
• Low cost	• Savings for the OEM
• 1% accuracy	• Useful for secondary process measurements
• All stainless steel	• Corrosion resistant
• Sealed, rugged package	• Suited for industrial environments

TECHNICAL SPECIFICATIONS

RANGE

	0-15, 25, 50 PSIG 0-100, 200 PSIS	0-500, 1000, 3000, 5000
	(0-1, 2, 3.5 bar g) (0-7, 14, bar s)	(0-35, 70, 207, 345 bar s)
	(bar values are approximate)	

PHYSICAL

Proof Pressure	2 x rated range	1.5 x rated range
Burst Pressure	20 x rated range	5 x rated range
Material in Contact With Media	Brazed assembly of 300 series stainless steel	
Shock	50 g's peak (5 milliseconds)	
Vibration	Meets MIL-STD 810-C, Figure 514.2-5, Curve AK, 20.7 g rms minimum	
Weight	Less than 3 oz (85 gm) without cable	

ELECTRICAL

Full Scale Output	16 ± 0.32 mA into 0-1400 Ω loop resistance @ 25˚C (4-20 mA)
Zero Output	4 ± 0.4 mA @ 25˚C
Excitation**	12 to 40 Vdc* Linear derating to 35 Vdc from 25˚ to 100˚C
Reverse Polarity Protection	Yes
Insulation Resistance	1000 MΩ @ 250 Vdc
Electrical Connection	2-conductor cable, 22 AWG, color coded shielded cable, 3 ft (0.91m) long

PERFORMANCE

Accuracy	± 1% FSO from best fit straight line including effects of nonlinearity hysteresis and nonrepeatability
Operating Temperature Range	-18˚ to 100˚C (0˚ to 212˚F) Hirschmann -18˚ to 90˚C (0˚ to 194˚F)
Compensated Temperature Range	-1˚ to 54˚C (30˚ to 130˚F)
Thermal Effect on Zero	Less than ± 1% FSO within the compensated range
Thermal Effect on Full Scale Output	Less than ± 1% within the compensated range

* *29.5 V max when used with energy barrier strip*
* *The minimum rated excitation voltage must be maintained at the transmitter. Therefore you must take into account voltage losses due to cable resistance when selecting a power supply.*

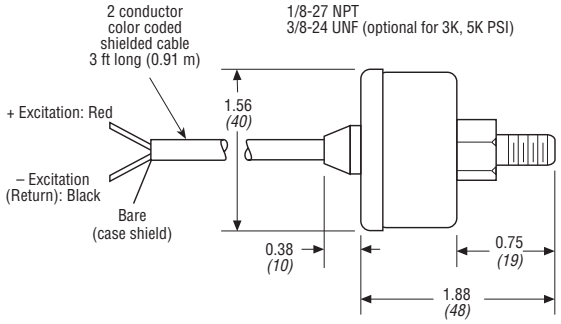
OPTIONS

- Hirschmann connector, including mate
- Absolute pressure version available in 0-15, 25, 50, 100 and 200 PSIA

XPRO with Hirschmann Connector

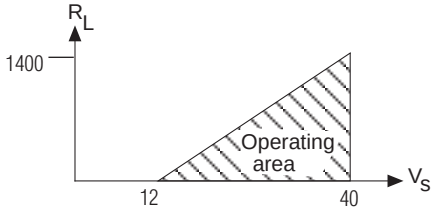
DIMENSIONS

xx.xx = inches
(xx.x) = mm



1/2 Hex for 1/8-27 NPT port
9/16 Hex for 3/8-24 UNF port

Load resistance in current loop



PIN AND WIRE CODES

Wire Color Code	Hirschmann Pin Code	Function
Red	4	+ Excitation
Black	3	- Excitation (Return)
Bare	NC	Case Shield

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