

Stainless Steel Pressure Sensors

XPRO Series

FEATURES

- Sealed, rugged package well suited for industrial environments
- 1.0% accuracy for secondary process measurements
- Stainless steel for corrosion resistance
- I/S certified when used with approved barriers - Class 1, Division 1, Groups A through G

TYPICAL APPLICATIONS

- Freon® and ammonia refrigeration
- Process control
- Flow detection
- Pneumatic systems
- Water resource management
- Liquid level measurement



The XPRO industrial grade pressure transmitter provides instrument engineers and OEM designers with reliable and affordable measurements. The 4 mA to 20 mA output signal is well 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 steels with no elastomer seals or adhesive bonds to corrode or deteriorate.

The sensing element and internal electronics are protected from normal industrial environments by a sealed stainless steel case.

⚠ WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

⚠ WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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SPECIFICATIONS

Pressure Ranges

0 to 15, 25 and 50, psig	0 to 500, 1000, 3,000 and 5,000 psis
0 to 100 and 200 psis	0 to 100 and 350 kg/cm ²

Physical

Proof Pressure	2 X rated range	1.5 X rated range
Burst Pressure	10 X rated range	5 X rated range

Material in contact with media Brazed assembly of 300 series Stainless Steel

Shock Resistance 50 g peak [5 milliseconds]

Vibration Resistance Meets MIL-STD 810C, Fig. 514-4, Curve AK, Time Schedule II, Random Vibration Test [Overall g rms = 20.7 minimum]

Weight Less than 3.0 oz [85.0 gm] without cable

Electrical

Span 16 ±0.32 mA into 0 to 1400 Ω loop resistance at 25 °C [77 °F]

Excitation Voltage 12.0 Vdc to 40.0 Vdc linear derating to 35.0 Vdc from 25 °C to 100 °C [77 °F to 212 °F]

Null Offset 4 ±0.4 mA at 25 °C [77 °F]

Reverse Polarity Protection Yes

Insulation Resistance Greater than 100 megohms at 250 Vdc

Electrical Connection 2-conductor, #22 AWG, color coded shielded cable 0.91 m [3 ft] long

Performance

Accuracy ±0.5% span from best fit straight line including effects of non-linearity, hysteresis, repeatability, 1.0% FSO 0 to 15 and 25 psi

Operating Temperature Range -40 °C to 100 °C [-40 °F to 212 °F]

Compensated Temperature Range -1 °C to 54 °C [30 °F to 130 °F]

Thermal Effect on Zero Less than ±1% span within the compensated temperature range

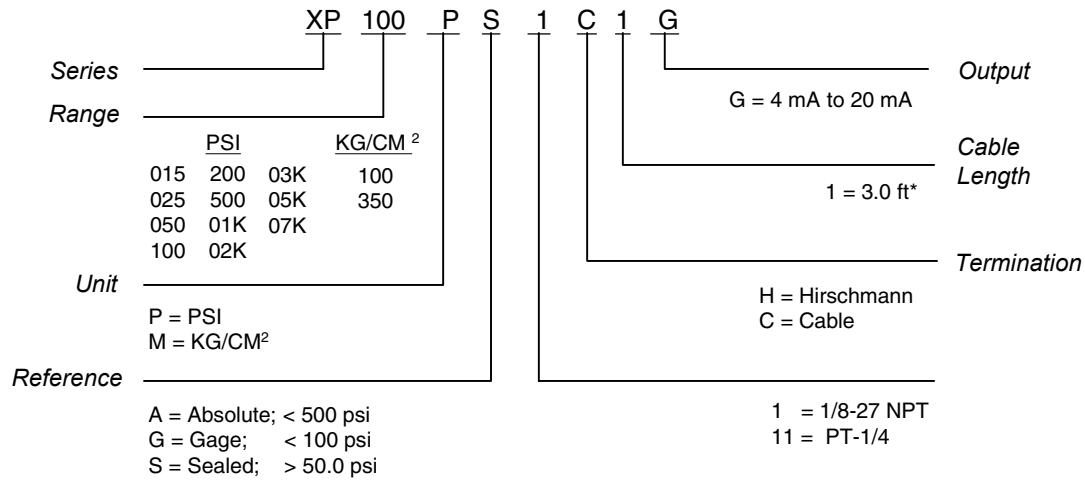
Thermal Effect on Span Less than ±1% within the compensated temperature range

Note: All specifications are measured at 25 °C [77 °F] and at rated excitation unless otherwise specified.

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HOW TO ORDER



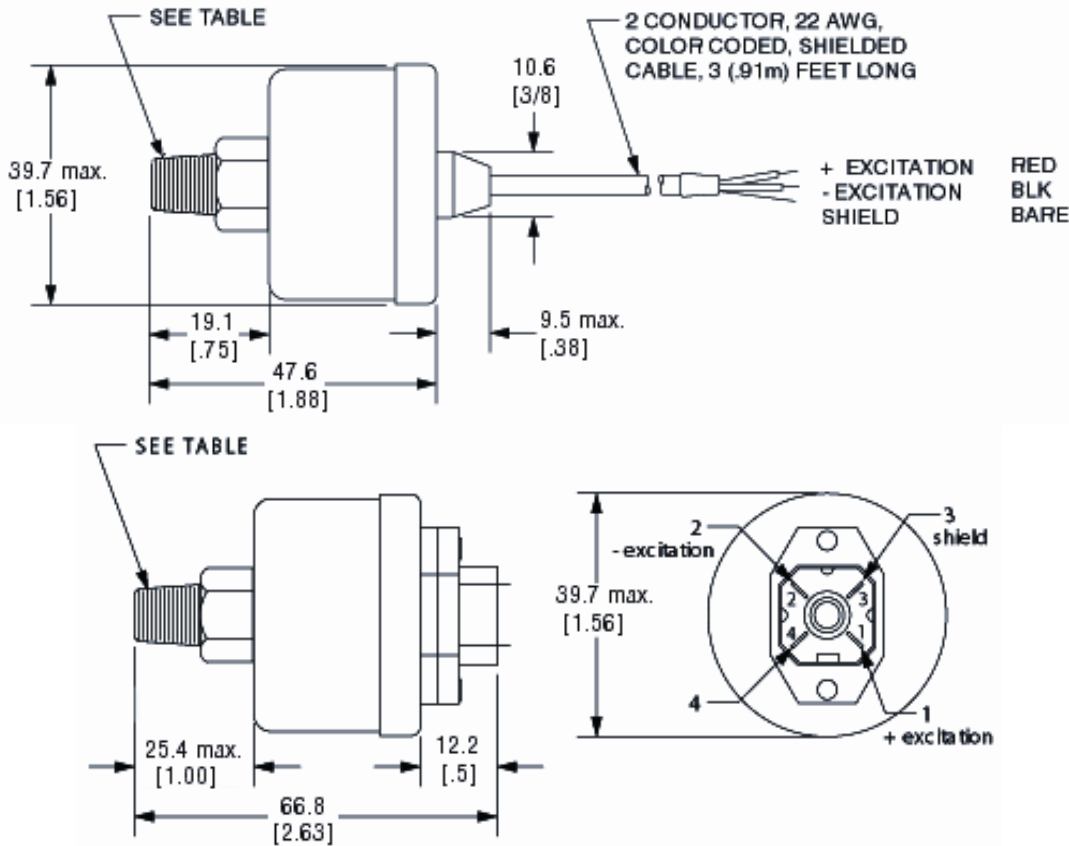
* No Designation for Hirschmann Termination

Note: Not all combinations are available. Minimum quantity orders apply. Contact Honeywell for more details

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DIMENSIONS (for reference only) mm (in)



PRESSURE PORT SIZE/HEX SIZE

Pressure Port Size	Hex Size
1/8 – 27 NPT	½ inch
PT 1/4	5/8 inch

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. **The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.** Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

For application assistance, current specifications, or name of the nearest Authorized Distributor, contact a nearby sales office. Or call:

1-800-537-6945 USA
1-800-737-3360 Canada
1-815-235-6847 International

FAX

1-815-235-6545 USA

INTERNET

www.honeywell.com/sensing
info.sc@honeywell.com

Honeywell

Sensing and Control

Honeywell
11 West Spring Street
Freeport, Illinois 61032
008084-1-EN_IL50_GLO 803 Printed in USA
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