

Stainless Steel Pressure Sensors

Datamate Series

FEATURES

- Conduit connections for the process industry
- Waterproof exterior
- Factory calibration allowing direct installation
- Compact
- I/S certified when used with approved barriers

TYPICAL APPLICATIONS

- Liquid level measurement
- Plant utilities (i.e. air, water, oil)
- Gas transmission pipeline
- Flow detection
- Geophysical monitoring
- Lubrication systems



The Datamate is a two-wire pressure transmitter which is compatible with data loggers and instrumentation used in processing environments. Its 4 mA to 20 mA output is ideal for remote monitoring of both primary and secondary process variables.

The Datamate is made of series 300 stainless steel. It is suitable for use with a variety of media that would otherwise require isolators. It is also intrinsically safe* for use in Class I, Division I, Groups A thru G hazardous areas.

A threaded conduit connector allows conduit to be easily attached to protect wiring in rugged process plant environments.

* When used with approved barriers.

⚠ 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 15.0, 25.0, and 50.0 psig	
0 to 100, and 200 psis	0 to 500, 1000, 3,000 and 5,000 psis

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	Brazen 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 5.5 oz [156 gm]	

Electrical

Span	16.0 \pm 0.32 mA at 25 °C [77 °F]	
Excitation Voltage	12.0 Vdc to 40.0 Vdc* linear derating to 35 Vdc from 25 °C to 100 °C [77 °F to 212 °F]	
Null Offset	4.0 \pm 0.4 mA at 25 °C [77 °F]	
Reverse Polarity Protection	Yes	
Insulation Resistance	Greater than 1000 megohms at 50.0 Vdc max.	
Electrical Connection	3 leads, including case ground, #22 AWG, XML insulation	

Performance

Accuracy	\pm 1.0% of FSO from best fit straight line including effects of non-linearity, hysteresis, and repeatability	
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 \pm 1% FSO within the compensated temperature range	
Thermal Effect on Span	Less than \pm 1% within the compensated temperature range	

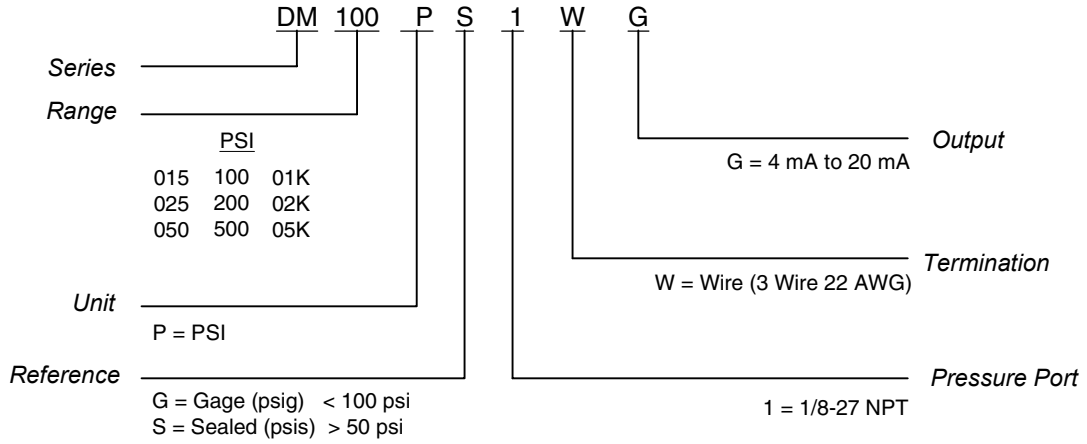
* 29.5 Vdc max. when used with energy barrier strip

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

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HOW TO ORDER

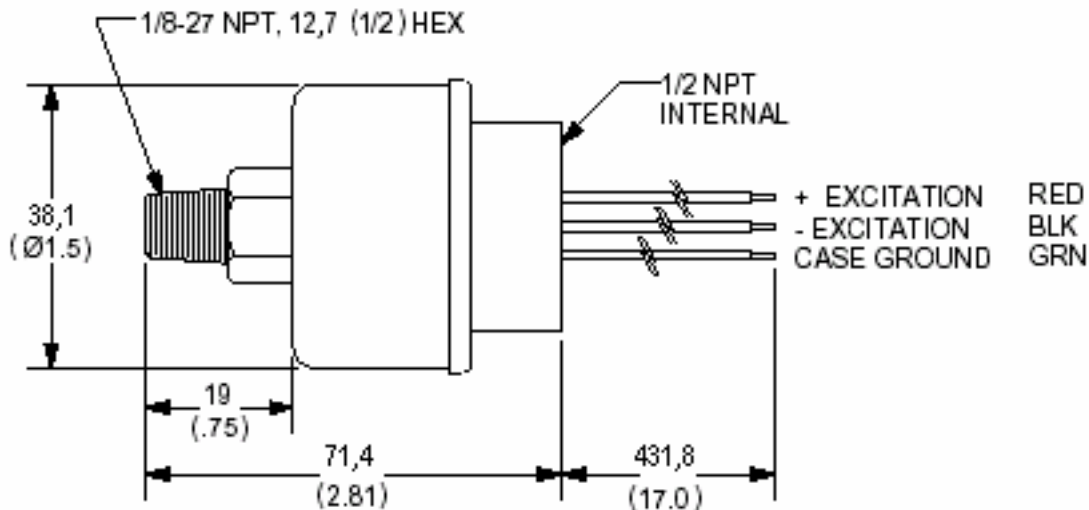


Note: Not all combinations are available. Minimum quantity orders apply. Contact Honeywell for more details.

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DIMENSIONS (for reference only) mm (in)



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

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