

MODEL DG • PRESSURE TRANSDUCER

AUTOMOTIVE
brake systems
fuel rail/injection
engine oil
continuously variable
transmissions
active suspensions
•
ENERGY
MANAGEMENT
'smart' compressors

The Model DG is designed to meet the needs of the OEM whose applications demand a pressure transducer for hostile high temperature environments. The DG's combination of rugged packaging, internal signal amplification, and low price make it ideal for many automotive, compressor, and hydraulic applications.

The steel case seals the internal electronics from the surrounding environment. The pressure media contacts only 300 series stainless. From 5V excitation, the DG's 4.5 V ratiometric output can interface directly to many microprocessors with onboard A/D converters. This eliminates typical transducer support circuitry, lowering system cost and speeding system design.



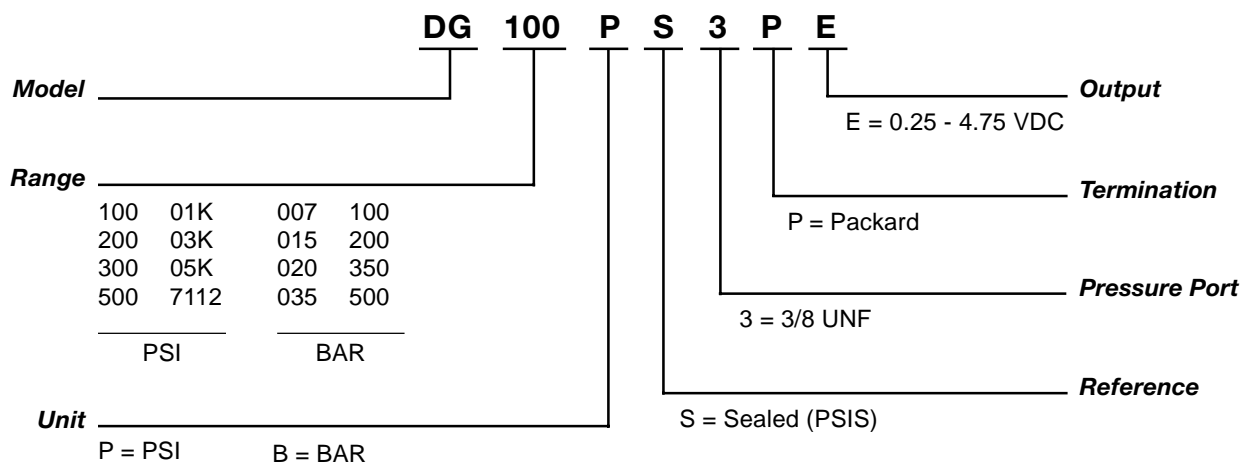
FEATURES

- Meets SAE J1211 specifications for under hood applications
- 100 through 7000 PSIS ranges
- Integral automotive type connector
- Reverse polarity and output protection
- Radiometric output
- Sealed steel case

BENEFITS

- High reliability in tough, hostile environments
- Suitable for many applications
- Speeds installation
- Not damaged by wiring errors
- Increased accuracy for microprocessor applications
- Complete protection for electronics
- High Temperature 125° C

HOW TO ORDER



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

TECHNICAL SPECIFICATIONS

RANGE

0-100, 200, 300, 500, 1000, 3000, 5000, 7000 PSI
20, 35, 100, 200, 350, 500 BAR
all ranges are sealed

PHYSICAL

Proof Pressure	1.5 x rated range without damage
Burst Pressure	5 x rated range without bursting
Material in Contact with Media	300 series SS
Shock Resistance	50 g's peak (5 milliseconds) resonance search per SAE J1211 Meets MIL-STD 810C, Figure 514-5, Curve AK, Time Schedule II Tandom Vibration Test (Overall g rms = 20.7 minimum)
Weight	approx. 3 oz (85 gm)

ELECTRICAL

Output Voltage	0.25 to 4.75 V min to max pressure
Excitation Voltage	+5 Vdc ± 0.25 V
Null Offset	0.25 V nominal
Supply Current (max)	20 mA
Output	
Minimum load	100 K ohms
Sink (max)	0.3 mA
Reverse Polarity Protection	YES
Insulation Resistance	1000 megohms at 25 Vdc
Electrical Connection	Packard Metri-Pack™ Requires Packard #12065287 mating connector (P/N 3685901) Order separately.

PERFORMANCE

Accuracy	$\pm 1\%$ of FSO from best fit straight line. Includes effects of non-linearity, hysteresis and repeatability.
Operating and Compensated Temperature Range	-40° to 257° F (-40° to 125° C)
Storage Temperature Range	-40° to 302° F (-40° to 150° C)
Total Error	$\pm 4\%$ of full scale (Includes the effects of zero output error, calibration error, temperature, non-linearity, hysteresis, and repeatability)

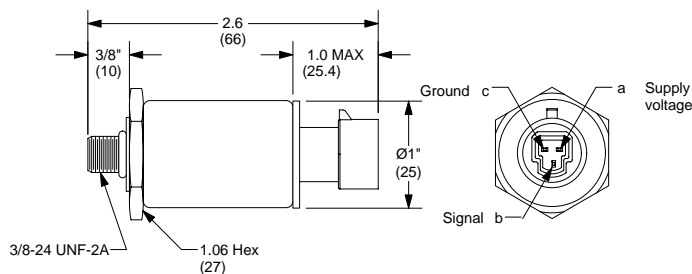
NOTE: All specifications are measured at 25° C and rated excitation unless otherwise specified.

Honeywell Sensing and Control products are protected by one or more of the following patents: U.S. 4,667,158; 4,327,350; 4,368,575; 4,912,409; 4,864,232; 4,866,378; 5,068,607; U.K.2054954; Japan 1498268; France 8014767; 8101087.

Additional U.S. and Foreign patents pending.

DIMENSIONS

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



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.

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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.

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