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### DG05KPS3PE



Actual product appearance may vary.

**DG Series Stainless Steel Pressure Sensor, High Temperature Capability, Sealed Gage, 0 psi to 5,000 psi, Item Number 9250908**

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#### Features

Meets SAE J1211 specifications for under hood applications  
 Amplified output  
 Wide choice of pressure ranges available  
 Accuracy of 1% FSO  
 Low -cost flexibility  
 No additional conditioning required  
 Meets application requirements

#### Potential Applications

**Automotive:**  
 Brake systems  
 Fuel rail/injection  
 Engine oil  
 Continuously variable transmissions  
 Active suspensions  
**Energy management:**  
 "Smart" compressors

#### Description

The Model DG is designed to meet the needs of the very high volume OEM whose applications demand a pressure transducer for hostile 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 nickel silver braze or series 300 stainless. From 5 V excitation, the DG's 4.5 V ratiometric output can interface directly to many microprocessors with onboard A/D converters. This substantially reduces typical transducer support circuitry, lowering system cost and speeding system design.

#### Supporting Documentation

- ▣ [Dimensions and Circuitry](#)
- ▣ [Documentation](#)

Product Specifications	
Measurement Type	Sealed Gage
Signal Conditioning	Amplified
Pressure Range	0 psi to 5,000 psi
Supply Voltage	5.0 Vdc
Maximum Overpressure	7,500 psi
Burst Pressure	25,000 psi
Port Style	3/8 -24 UNF
Temperature Compensation	Yes
Output Type	0.25 Vdc to 4.75 Vdc
Protection Circuitry	Reverse Polarity
Accuracy	1.0% full scale BFSL
Response Time	less than 1.0 ms
Insulation Resistance	1000 Mohms @ 50 Vdc max.
Output Calibration	Yes
Termination Type	Packard Metri -Pack™ Connector
Weight	85 grams [3.0 ounces]
Full Scale Span	4.5 Vdc (0.25 Vdc - 4.75 Vdc)
Operating Temperature Range	-40 °C to 125 °C [ -40 °F to 257 °F]
Compensated Temperature Range	-40 °C to 125 °C [ -40 °F to 257 °F]
Storage Temperature Range	NO IDEA SHARED FORMULA EXP PTG
Media Compatibility	Limited only to those media which will not attack a brazed assembly of 300 Series stainless steel parts
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Availability	Global
Series Name	DG

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