

OEM Pressure Sensor Media Compatible Temperature Compensated Serialized

Features

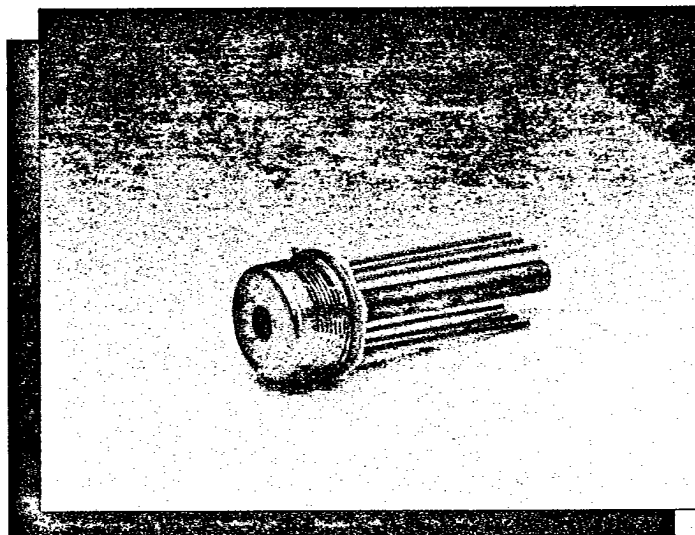
- Solid State Reliability
- $\pm 1\text{mV}$ Zero Output
- Infinite Resolution
- 100 mV Output Span
- Ratiometric
- $\pm 0.1\%$ Accuracy
- Low Noise
- Humidity Resistant
- Low Power
- Performance Graded

Typical Applications

- Medical
- Liquid Level
- Process Control
- Water Management
- Oceanography
- Environmental Control
- Refrigeration
- Agricultural Sprayers
- Pollution Control
- Automotive

Standard Ranges

- 0 to 5 psig
- 0 to 10 psig
- 0 to 15 psig
- 0 to 30 psig
- 0 to 50 psig
- 0 to 100 psig
- 0 to 250 psig



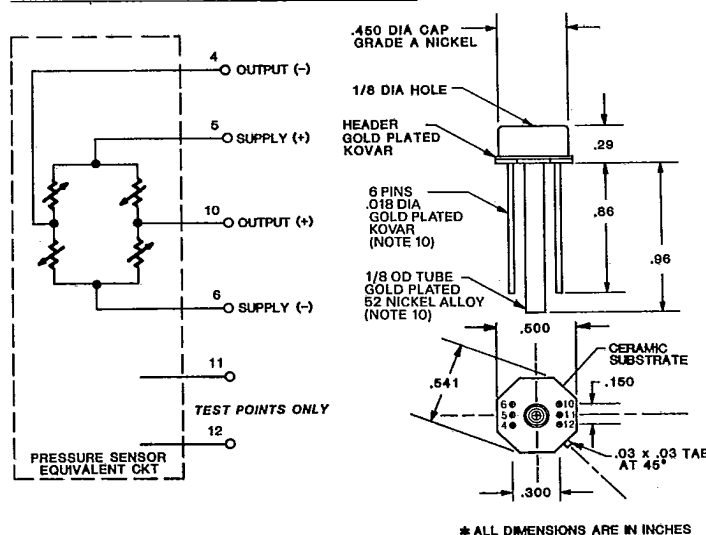
Description

The Model 22 is a media compatible, solid state, piezoresistive pressure sensor that is packaged in a TO-8 configuration and is intended for use with corrosive or conductive fluid or gaseous media where excellent long-term stability is required. Each sensor is individually serialized.

Integral temperature compensation is provided along with zero balancing over 0-50°C with laser trimmed resistors. No external resistors are required.

Three performance grades are available in gage pressure from 0-5 psi to 0-250 psi for the Model 22 and 0-5 psi to 0-15 psi for the Model 22N.

Connections/Dimensions



I C SENSORS INC 83 DE 4677375 0000066 5

Performance Specifications

Supply Current = 1.5 mA & Ambient Temperature = 25°C (Unless otherwise specified)

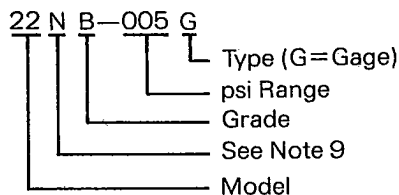
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Notes

1. Temperature range: 0-50°C in reference to 25°C.
2. Compensation resistors are an integral part of the sensor package; no additional external resistors are required. Pins 11 and 12 must be kept open. For interchangeable part see Model 23 Data Sheet and Application Note TN-003.
3. Best fit straight line.
4. Guarantees output/input ratiometricity.
5. For a zero-to-full scale pressure step change.
6. 10Hz to 1kHz.
7. Prevents increase of TC-Span due to output loading.
8. 3X or 500 psi maximum, whichever is less.
9. Wetted materials are gold, RTV (22N only), silicon and glass. The Model 22N is available in 5, 10 and 15 psi ranges only.
10. Soldering of lead pins and bottom tube: 250°C for 5 seconds maximum. Heat-sink tube while soldering.

Ordering Information



Represented By

I. C. Sensors products are warranted against defects in material and workmanship for 12 months from date of shipment. Products not subjected to misuse will be repaired or replaced. THE FOREGOING IS IN LIEU OF ALL OTHER EXPRESSED OR IMPLIED WARRANTIES. I. C. Sensors reserves the right to make changes to any product herein and assumes no liability arising out of the application or use of any product or circuit described or referenced herein.



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