

| | <u>ENGLISH</u> | <u>SI</u> | |
|--|----------------------|---------------------------------|-----|
| Performance | | | |
| Measurement Range(for ±5V output) | 100 psi | 690 kPa | |
| Sensitivity(-40 to +20 %) | 50 mV/psi | 7.3 mV/kPa | [1] |
| Maximum Pressure | 250 psi | 1720 kPa | |
| Resolution | 5 mpsi | 0.035 kPa | |
| Resonant Frequency | ≥ 250 kHz | ≥ 250 kHz | |
| Rise Time(Reflected) | ≤ 2.0 μ sec | ≤ 2.0 μ sec | |
| Low Frequency Response(-5 %) | 0.5 Hz | 0.5 Hz | |
| Non-Linearity | ≤ 2.0 % FS | ≤ 2.0 % FS | [2] |
| Environmental | | | |
| Acceleration Sensitivity | ≤ 0.04 psi/g | ≤ 0.028 kPa/(m/s ²) | |
| Temperature Range(Operating) | -100 to +250 °F | -73 to +121 °C | |
| Temperature Coefficient of Sensitivity | ≤ 0.09 %/°F | ≤ 0.162 %/°C | |
| Maximum Flash Temperature | 3000 °F | 1649 °C | |
| Maximum Shock | 5000 g pk | 49,035 m/s ² pk | |
| Electrical | | | |
| Output Polarity(Positive Pressure) | Positive | Positive | |
| Discharge Time Constant(at room temp) | >1.0 sec | >1.0 sec | |
| Excitation Voltage | 22 to 30 VDC | 22 to 30 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | <100 ohm | <100 ohm | |
| Output Bias Voltage | 8 to 14 VDC | 8 to 14 VDC | |
| Physical | | | |
| Sensing Geometry | Compression | Compression | |
| Sensing Element | Quartz | Quartz | |
| Housing Material | Stainless Steel | Stainless Steel | |
| Diaphragm | 17-4 Stainless Steel | 17-4 Stainless Steel | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | 5-44 Coaxial | 5-44 Coaxial | |
| Weight | 0.055 oz | 1.56 gm | |

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

M - Metric Mount

N - Negative Output Polarity

W - Water Resistant Cable

NOTES:

[1] Due to high sensitivity, the static pressure should be applied and removed very slowly.

[2] Zero-based, least-squares, straight line method.

[3] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 018C10 Miniature coaxial cable, vinyl insulation jacket, 10-ft, 5-44 coaxial plug to BNC plug (1)

Model 040A37 Hex nut driver (1)

Model 065A10 Seal ring 0.138" OD x 0.101" ID x 0.022" thk brass (3)

Model 065A38 Seal & Sleeve 0.138" OD x 0.101" ID x 0.105" thk., brass. (3)

| | | | | |
|---------------------|---------------------|---------------------|----------------------|--------------|
| Entered: <u>BLS</u> | Engineer: <u>RF</u> | Sales: <u>RWH</u> | Approved: <u>NSL</u> | Spec Number: |
| Date: <u>8-6-07</u> | Date: <u>8-3-07</u> | Date: <u>8-3-07</u> | Date: <u>8-3-07</u> | 11240 |



All specifications are at room temperature unless otherwise specified.
 In the interest of constant product improvement, we reserve the right to change specifications without notice.

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