

Variable capacitance accelerometer Model 7290G and 7290GM5



Key features

- 2, 5, 10, 30, 50, 100 and 200 g full scale ranges
- Motion, low frequency, tilt
- 10K g shock survivability
- Precision digital temperature compensation
- M5 option for water tight performance

Description

Model 7290G accelerometer family utilizes unique variable capacitance microsensors. The accelerometers are designed for measurement of relatively low level accelerations in aerospace and automotive environments. Typical applications require measurement of whole body motion immediately after the accelerometer is subjected to a shock motion, and in the presence of severe vibrational inputs. State-of-the-art digital temperature compensation electronics provide for precise compensation over a wide temperature range. The use of gas damping results in very small thermally induced changes in frequency response.

Gas damping and internal over-range stops enable the anisotropically-etched silicon microsensors to withstand high shock and acceleration loads. For outdoor use specify the M5 option, which has a PFA cable and a reinforced cable to case connection. The M5 is watertight for outdoor applications such as vehicle road testing and flight test. It was tested to IP67 during development, but is not intended for underwater use, which would void the product warranty.

The accelerometer is specified for operation over the wide excitation voltage range of 8V to 40V. Model 7290G can be configured for either a differential and single ended output. The differential output has a range of ± 2 V and is DC coupled. The single ended output is 0.5 V to 4.5 V with 2.5 V of bias voltage.

U.S. Patents 4,574,327, 4,609,968 and 4,999,735

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The following performance specifications are referenced at +75°F (+24°C) and 100 Hz, unless otherwise noted. Calibration data traceable to National Institute of Standards and Technology (NIST) is supplied.

| Dynamic characteristics | Units | -2 | -5 | -10 | -30 | -50 | -100 | -200 |
|--|---|--|--|---|-----------------------------------|---------------|-----------|----------|
| Range | g | ±2 | ±5 | ±10 | ±30 | ±50 | ±100 | ±200 |
| Sensitivity | mV/g | 1000 ±50 | 400 ±20 | 200 ±10 | 66 ±4 | 40 ±2 | 20 ±1 | 10 ±0.5 |
| Frequency response (± 5% max) | Hz | 0 to 15 | 0 to 30 | 0 to 500 | 0 to 1000 | 0 to 2000 | 0 to 2000 | 0 to 20 |
| (± 10% typ) | Hz | 0 to 30 | 0 to 80 | 0 to 1300 | 0 to 1800 | 0 to 3000 | 0 to 3000 | 0 to 400 |
| (± 3dB typ) | Hz | 0 to 60 | 0 to 150 | 0 to 2800 | 0 to 3000 | 0 to 4500 | 0 to 4500 | 0 to 60 |
| Mounted resonance frequency | Hz | 1300 | 1600 | 3000 | 5500 | 6000 | 6000 | 6000 |
| Non-linearity and hysteresis [1] | % FSO typ (max) | ±0.20 (±0.50) | ±0.20 (±0.50) | ±0.20 (±0.50) | ±0.20 (±0.50) | ±0.20 (±0.50) | ±1 (±2) | ±1 (±2) |
| Transverse sensitivity | % (max) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Zero measurand output | mV | ±50 | ±50 | ±50 | ±50 | ±50 | ±50 | ±50 |
| Damping ratio | | 4.0 | 2.5 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 |
| Damping ratio change | | | | | | | | |
| From -65°F to +250°F (-55°C to +121°C | C) %/°C | +0.08 | +0.08 | +0.08 | +0.08 | +0.08 | +0.08 | +0.08 |
| Thermal zero shift (max) | | | | | | | | |
| From -40°F to 212°F (-40°C to 100°C) | % FSO | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 |
| Thermal sensitivity shift (max) | | | | | | | | |
| From -40°F to 212°F (-40°C to +100°C) | % | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 | ±1.0 |
| Overrange (determined by electrical clip | | | | - | - | - | - | |
| Electrical clipping | volts | ±2.4 | ±2.4 | ±2.4 | ±2.4 | ±2.4 | ±2.4 | ±2.4 |
| Mechanical stops, typical | g | ±4 | ±12 | ±30 | ±45 | ±150 | ±150 | ±300 |
| Recovery time | 9 µs | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Resolution [2] | Equiv. g's | 0.0002 | 0.0005 | 0.0010 | 0.0030 | 0.0050 | 0.0100 | 0.0200 |
| Base strain sensitivity, max | Equiv. g's | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0100 | 0.0200 |
| Warm-up time (to within 1%) | ms | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Warm-up time (to within 1 %) | 1115 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Electrical characteristics | | | | | | | | |
| Excitation voltage | 8 to 40Vdc | | | | | | | |
| Current drain | 4.5 mA typ, 6 mA max | | | | | | | |
| | | | | | | | | |
| Output impedance/load | 100 ohms max/10K | ohms resistance mir | nimum, 0.1 µF capac | itance maximum | | | | |
| | 100 ohms max/10K 100 μV rms typ, 0.5 | ohms resistance mir to 100 Hz | nimum, 0.1 μF capac | itance maximum | | | | |
| Output impedance/load | 100 ohms max/10K | ohms resistance mir to 100 Hz | nimum, 0.1 μF capac | itance maximum | | | | |
| Output impedance/load | 100 ohms max/10K 100 μV rms typ, 0.5 | ohms resistance mir to 100 Hz | nimum, 0.1 μF capac | itance maximum | | | | |
| Output impedance/load Residual noise | 100 ohms max/10K 100 μV rms typ, 0.5 | ohms resistance mir to 100 Hz Hz to 10 kHz | nimum, 0.1 µF capac | itance maximum | | | | |
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| Output impedance/load Residual noise Physical characteristics Case material | 100 ohms max/10K 100 µV rms typ, 0.5 500 uV rms tvp. 0.5 Anodized aluminum Integral cable, four of | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, | Teflon [®] insulated lea | ads, spiral shield, Hy | - | 290G; | | |
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| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics | 100 ohms max/10K 100 µV rms typ, 0.5 500 uV rms tvo. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 c | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, r M3 mounting scre | Teflon® insulated lea braided shield, gray ws / 6 lbf-in (0.68 Ni | ads, spiral shield, Hy PFA 340 jacket for 7 n) | 290GM5 | | | |
| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics Acceleration limits (in any direction) | 100 ohms max/10K 100 µV rms typ, 0.5 500 uV rms tvo. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 c 10 grams without ca | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, r M3 mounting scre | Teflon® insulated lea braided shield, gray ws / 6 lbf-in (0.68 Ni | ads, spiral shield, Hy PFA 340 jacket for 7 n) | 290GM5 | | | |
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| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics Acceleration limits (in any direction) Static | 100 ohms max/10K 100 µV rms typ, 0.5 500 uV rms tvo. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 c 10 grams without ca 20,000 g | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, r M3 mounting scre ble (cable weighs 9 rrsine pulse) for -2, - | Teflon® insulated lea braided shield, gray ws / 6 lbf-in (0.68 Nr grams/meter for 72' | ads, spiral shield, Hy PFA 340 jacket for 7 n) 20G and 13 grams/n | 290GM5 neter for 7290GM5) | | | |
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| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics Acceleration limits (in any direction) Static Shock Zero shift | 100 ohms max/10K 100 µV rms typ, 0.5 500 uV rms tvo. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 c 10 grams without ca 20,000 g 5000 g (150 µS have | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, I r M3 mounting scre ble (cable weighs 9 rsine pulse) for -2, - 5000 g | Teflon® insulated lea braided shield, gray ws / 6 lbf-in (0.68 Nr grams/meter for 72' | ads, spiral shield, Hy PFA 340 jacket for 7 n) 20G and 13 grams/n | 290GM5 neter for 7290GM5) | | | |
| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics Acceleration limits (in any direction) Static Shock Zero shift Temperature | 100 ohms max/10K 100 µV rms typ, 0.5 500 µV rms typ, 0.5 500 µV rms typ. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 of 10 grams without ca 20,000 g 5000 g (150 µS have 0.1% FSO typical at | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, I r M3 mounting scre ble (cable weighs 9 ersine pulse) for -2, - 5000 g | Teflon® insulated lea braided shield, gray ws / 6 lbf-in (0.68 Nr grams/meter for 72' | ads, spiral shield, Hy PFA 340 jacket for 7 n) 20G and 13 grams/n | 290GM5 neter for 7290GM5) | | | |
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| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics Acceleration limits (in any direction) Static Shock Zero shift Temperature Operating Storage | 100 ohms max/10K 100 µV rms typ, 0.5 500 µV rms typ, 0.5 500 µV rms tvp. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 c 10 grams without ca 20,000 g 5000 g (150 µS have 0.1% FSO typical at -65°F to +250°F (-55° -40°F to +212°F (-40° | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, l r M3 mounting scre ble (cable weighs 9 rsine pulse) for -2, - 5000 g ⁵⁰ C to +121°C) ¹⁰ C to +100°C) poxy sealed. IP67 for | Teflon [®] insulated lea braided shield, gray ws / 6 lbf-in (0.68 N grams/meter for 72 5 and -10; 10 000 g pr 7290GM5 only. | ads, spiral shield, Hy PFA 340 jacket for 7 η) 20G and 13 grams/n (80 μS haversine pul | 290GM5 neter for 7290GM5) | | | |
| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics Acceleration limits (in any direction) Static Shock Zero shift Temperature Operating Storage Humidity/altitude ESD sensitivity | 100 ohms max/10K 100 µV rms typ, 0.5 500 µV rms typ, 0.5 500 µV rms tvo. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 c 10 grams without ca 20,000 g 5000 g (150 µS have 0.1% FSO typical at -65°F to +250°F (-55 -40°F to +212°F (-40 Unaffected. Unit is e | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, l r M3 mounting scre ble (cable weighs 9 rsine pulse) for -2, - 5000 g ⁵⁰ C to +121°C) ¹⁰ C to +100°C) poxy sealed. IP67 for | Teflon [®] insulated lea braided shield, gray ws / 6 lbf-in (0.68 N grams/meter for 72 5 and -10; 10 000 g pr 7290GM5 only. | ads, spiral shield, Hy PFA 340 jacket for 7 η) 20G and 13 grams/n (80 μS haversine pul | 290GM5 neter for 7290GM5) | | | |
| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics Acceleration limits (in any direction) Static Shock Zero shift Temperature Operating Storage Humidity/altitude | 100 ohms max/10K 100 µV rms typ, 0.5 500 µV rms typ, 0.5 500 µV rms tvo. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 c 10 grams without ca 20,000 g 5000 g (150 µS have 0.1% FSO typical at -65°F to +250°F (-55 -40°F to +212°F (-40 Unaffected. Unit is e | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, I r M3 mounting scre ble (cable weighs 9 crsine pulse) for -2, - 5000 g source to +121°C) poxy sealed. IP67 for equirements of MIL- | Teflon [®] insulated lea braided shield, gray ws / 6 lbf-in (0.68 N grams/meter for 72 5 and -10; 10 000 g pr 7290GM5 only. | ads, spiral shield, Hy PFA 340 jacket for 7 η) 20G and 13 grams/n (80 μS haversine pul | 290GM5 neter for 7290GM5) | | | |
| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics Acceleration limits (in any direction) Static Shock Zero shift Temperature Operating Storage Humidity/altitude ESD sensitivity Calibration | 100 ohms max/10K 100 µV rms typ, 0.5 500 µV rms typ, 0.5 500 µV rms typ. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 c 10 grams without ca 20,000 g 5000 g (150 µS have 0.1% FSO typical at -65°F to +250°F (-55° -40°F to +212°F (-40° Unaffected. Unit is e Unit meets Class 2 n | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, I r M3 mounting scre ble (cable weighs 9 cable weighs 9 rssine pulse) for -2, - 5000 g °C to +121°C) °C to +120°C) poxy sealed. IP67 fo equirements of MIL- equirements of MIL- ind -5 | Teflon [®] insulated lea braided shield, gray ws / 6 lbf-in (0.68 N grams/meter for 72' 5 and -10; 10 000 g or 7290GM5 only. -STD-883, Method 3 | ads, spiral shield, Hy PFA 340 jacket for 7 η) 20G and 13 grams/n (80 μS haversine pul | 290GM5 neter for 7290GM5) | | | |
| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics Acceleration limits (in any direction) Static Shock Zero shift Temperature Operating Storage Humidity/altitude ESD sensitivity Calibration Sensitivity | 100 ohms max/10K 100 µV rms typ, 0.5 500 µV rms typ, 0.5 500 µV rms tvo. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 c 10 grams without ca 20,000 g 5000 g (150 µS have 0.1% FSO typical at -65°F to +250°F (-55 -40°F to +212°F (-40 Unaffected. Unit is e Unit meets Class 2 m 1 g and 5 Hz for -2 at (measured with 15 V | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, I rr M3 mounting scre ble (cable weighs 9 rsine pulse) for -2, - 5000 g source to +121°C) poxy sealed. IP67 for equirements of MIL- equirements of MIL- ind -5 for dc excitation) | Teflon® insulated lea braided shield, gray ws / 6 lbf-in (0.68 Nr grams/meter for 72' 5 and -10; 10 000 g br 7290GM5 only. -STD-883, Method 3 10 g and 100 Hz | ads, spiral shield, Hy PFA 340 jacket for 7 m) 20G and 13 grams/n (80 μS haversine pul 015 for all other ranges | 290GM5 neter for 7290GM5) | | | |
| Output impedance/load Residual noise Physical characteristics Case material Electrical connections Mounting/torque Weight Environmental characteristics Acceleration limits (in any direction) Static Shock Zero shift Temperature Operating Storage Humidity/altitude ESD sensitivity Calibration | 100 ohms max/10K 100 µV rms typ, 0.5 500 µV rms typ, 0.5 500 µV rms tvo. 0.5 Anodized aluminum Integral cable, four of Four 30 AWG PFA 3 Two holes for 4-40 c 10 grams without ca 20,000 g 5000 g (150 µS have 0.1% FSO typical at -65°F to +250°F (-55 -40°F to +212°F (-40 Unaffected. Unit is e Unit meets Class 2 m 1 g and 5 Hz for -2 a | ohms resistance mir to 100 Hz Hz to 10 kHz alloy conductor 28 AWG, 40 insulated leads, I rr M3 mounting scre ble (cable weighs 9 rrsine pulse) for -2, - 5000 g S ^o C to +121°C) PC to +100°C) poxy sealed. IP67 fc equirements of MIL- ind -5 'dc excitation) -2 and -5, 10 g, 20 t | Teflon® insulated lea braided shield, gray ws / 6 lbf-in (0.68 Nr grams/meter for 72' 5 and -10; 10 000 g br 7290GM5 only. -STD-883, Method 3 10 g and 100 Hz | ads, spiral shield, Hy PFA 340 jacket for 7 m) 20G and 13 grams/n (80 μS haversine pul 015 for all other ranges | 290GM5 neter for 7290GM5) | | | |

Variable capacitance accelerometer | Model 7290G and 7290GM5

| Accessories | 5 | | | | | |
|-------------|--|----------|----------|--|--|--|
| Options | Description | 7290G | 7290GM5 | | | |
| EHW265 | Size 4, flat washers (2) | Included | Included | | | |
| EH702 | 4-40 x 7/16 inch cap screws (2) | Included | Included | | | |
| EHM464 | Hex key wrench | Included | Included | | | |
| 7990 | Triaxial mounting block | Optional | Optional | | | |
| 136 | 3-channel DC differential voltage amplifier | Optional | Optional | | | |
| Options | | | | | | |
| Options | Description | | | | | |
| M1 | Made with leaded solder for colder storage temp, recommended for space applications | | | | | |
| M5 | With more robust cable and strain relief, IP67, recommended for outdoor installation | | | | | |

Ordering information

1. Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at 866-ENDEVCO for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.

Notes

- 1. Full scale output (FSO) is nominally 4 volts.
- 2. Resolution = (2x residual noise; 0.5 to 100 Hz) / sensitivity
- 3. Model number definition:



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ENDEVCU

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