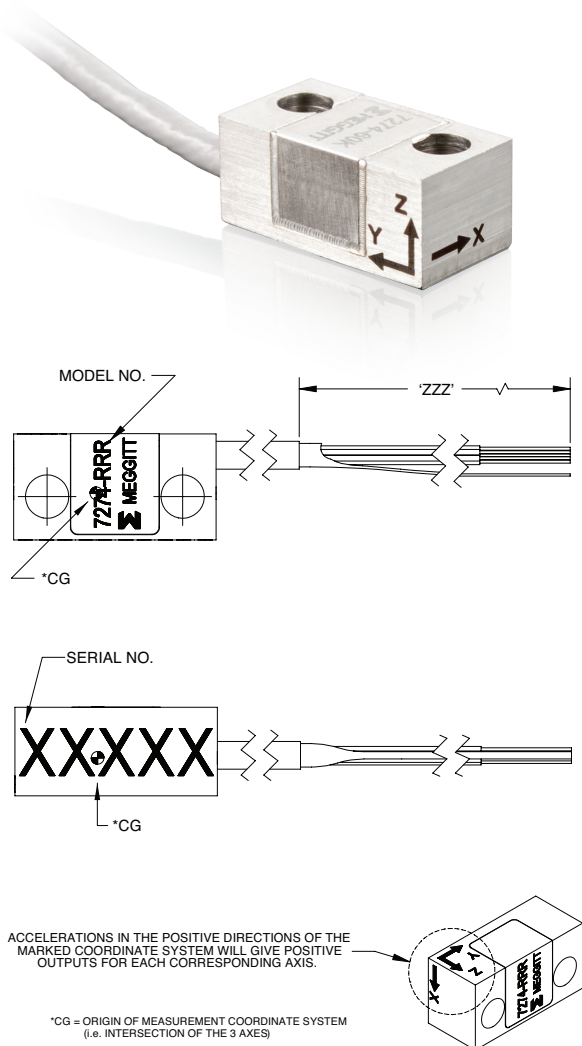




Model 7274 Piezoresistive triaxial accelerometer

Features

- › 2000, 6000, 20 000 and 60 000 g ranges
- › High resonance frequency
- › Rugged to 3X full scale range
- › No damping for fast response time
- › Minimal zero shift after shock



Description

The Endevco® model 7274 series is a family of rugged, undamped, piezoresistive triaxial accelerometers designed for high-acceleration shock measurements in three mutually perpendicular axes. This family uses three sensors that are mounted in a triaxial arrangement inside a single housing, which shares the same footprint and bolt pattern as Meggitt Sensing Systems' legacy Endevco model 7270A product family. The sensor boasts a robust eight conductor cable that can repeatedly withstand the high-acceleration shock environment.

The model 7274 utilizes the same highly efficient sensing system as the model 7270A. For each axis, the MEMS sensor is sculptured from a single chip of silicon, which includes the inertial mass and strain gages arranged in a four-active-arm Wheatstone bridge circuit. The model 7274 is available in ranges from 2,000 g to 60,000 g, with all three axes having the same range. Selectable ranges per axis are available by special request. Although the model 7274 is brand new, the sensing system technology used has a proven track record of more than 20 years.

U.S. patent numbers 4,498,229; 4,605,919 and 4,689,600 apply to this unit.

Model number definition

7274 - XXX - E - ZZZ

Cable length in inches (i.e. 7274-XXX-E-120 has a length of 120 inches). If no dash number is specified the default is 48 inches for lengths ≤ 10 ft specify in 1 foot increments (60", 72", 84" ... 120") for lengths > 10 ft specify in 5 foot increments (180", 240", 300", etc.)

Excitation voltage option (omit dash number for default voltage of 5 Vdc)

Range
-2K = 2000 g
-6K = 6000 g
-20K = 20000 g
-60K = 60000 g

Basic model number

Accessories

Product	Description	
EHW265	#4 flat washer [2]	Included
EH815	#4-40 × 3/8" screw, alloy steel [2]	Included
126	DC amplifier, 3 channel benchtop	Optional
136	DC amplifier, 3 channel benchtop with display	Optional
436	DC amplifier, 3 channel rack mount	Optional
31167	Adaptor plate to a #10-32 stud mount	Optional
2974M8	Test fixture, triaxial	Optional

This product is subject to International Traffic in Arms Regulations (ITAR), and as such a license is required for shipments outside the U.S. and other restrictions may apply.

Continued product improvement necessitates that Meggitt (San Juan Capistrano), Inc. reserve the right to modify these specifications without notice. Meggitt (San Juan Capistrano), Inc. maintains a program of constant surveillance over all products to ensure a high level of reliability. This program includes attention to reliability factors during product design, the support of stringent Quality Control requirements, and compulsory corrective action procedures. These measures, together with conservative specifications have made the name Endevco synonymous with reliability.

©Meggitt (San Juan Capistrano), Inc. All Rights Reserved 30700 Rancho Viejo Road, San Juan Capistrano, CA 92675 USA
(800) 982-6732 • (949) 493-8181 fax (949) 661-7231 • www.endevco.com • Email: applications@endevco.com 100511