

M7 Accelerometer



Compatible upgrade of Sercel AS2 accelerometer

- *Increased dynamic range*
- *Soft Clipping*
- *Mounting bolt water release reduces rusting*



Features

- Dual independent Accelerometers for Quality Assurance
- Protected against electromagnetic interference (EMI)
- Protected against moisture
- Input polarity protected
- Output short circuit protected
- Withstands up to 2000 g's without damage

M7 Accelerometer Specs

Outputs

Sensitivity: 180 mV/g differential +/- 1 % typical

Frequency range: 0 to 2300 Hz

Damping factor 0.7 typical

Polarity: upward acceleration produces positive Voltage

Built-in test: "OK" is +20 V differential when dual outputs match within 5 % full linear scale, measured between 0.7 and 130 Hz. Otherwise "OK" is -1 V differential.

Dynamic Range

Linear sensitivity between +/- 100 g's full linear scale

Over-range: Reduced sensitivity beyond +/- 100 g's

Total dynamic range without clipping: +/- 450 g's

Physical

Mounting pattern:	56.5 x 74 mm (2.22 x 2.91 in.)
Recommended mounting bolts:	M8 X 50 mm long, or 5/16" x 2" long, or 1/4" x 2" long
Body size:	88.4 L x 75.7 W x 40.9 H (3.48" x 2.98" x 1.61") (connector adds 14.6 mm (.575") H)
Weight:	500g (1.1 pounds)
Solid mounts for independent QC accelerometers:	#10-32, and 1/4" – 28 internal threads
Environmental	
Operating temperature range:	-40 to +100 C (-40 to +212 F)
Compensated temperature range:	-20 to +85 C (-4 to +185 F)
Power In:	+/- 15 Volts, +/- 40 milliamperes

Note: Specifications subject to change without notice.

