

M7 Sercel Compatible Accelerometer

Compatible upgrade of
Sercel AS2 accelerometer

- Increased dynamic range
- Soft clipping
- Mounting bolt water release reduces rusting



M7 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 General Specifications

Outputs:

Sensitivity	25 mV/G ($\pm 1.0\%$ typical)
Frequency response	0 to 2300 Hz
Damping	0.7% (typical)
Polarity	Upward acceleration produces positive voltage
Built-in test	"OK" is +20v differential when dual outputs match within 5% full linear scale, measured between 0.7 and 130 Hz. Otherwise "OK" is -1v differential.

Dynamic Range:

Linear sensitivity	Between $\pm 100g$'s full scale
Over-range	Reduced sensitivity beyond $\pm 100g$'s
Total dynamic range without clipping	$\pm 450g$'s

Physical:

Mounting pattern	56.4 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 75.5 W x 40.9 H (3.48" x 2.98" x 1.61") (connector adds 14.6 mm (0.575") to height)
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