

Model Number
687A02

HANDHELD VIBRATION METER

Revision: B
ECN #: 15994

ELECTRICAL CHARACTERISTICS

	ENGLISH	SI	
Excitation Voltage (± 1 VDC)	24 VDC	24 VDC	
Excitation Current (± 0.6 mA)	2 mA	2 mA	
Frequency Response:			
Velocity (+10%, -20%)	600 – 60,000 cpm	600 – 60 000 cpm	[1]
Acceleration (± 3 dB)	3,000 – 3,000,000 cpm	3 000 – 3 000 000 cpm	[1]
Acceleration Range	0.01 – 19.99 grms	0,01 – 19,99 grms	
Velocity Range	0.001 – 1.999 in/sec rms	Not Applicable	
DC Bias Range	0.00 – 19.99 VDC	0,00 – 19,99 VDC	
Meter Resolution	± 2 counts	± 2 counts	[2]
Accuracy	$\pm 3\%$	$\pm 3\%$	[2]
Battery Life (alkaline)	10 hours	10 hours	[2]
Battery Life (rechargeable)	3 hours	3 hours	[2] [3]

ENVIRONMENTAL CHARACTERISTICS

Temperature Range	+32 to +122 °F	0 to +50 °C	[4]
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MECHANICAL CHARACTERISTICS

Size (L x W x H)	5.9 x 3.15 x 1.2 in	150 x 80 x 30 mm
Weight (with battery)	0.569 lb	258 gm
Connectors:		
Input	BNC Jack	BNC Jack
Headphones	1/8" Stereo Jack	Not Applicable

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.

- R – Rechargeable Version
 Model 073M12 External Charger
 Model 073A09 NiCd Battery **replaces** Alkaline
 Model 017A01 AC Line Cord

NOTES:

- [1] 1 Hz = 60 cpm (cycles per minute).
 [2] Typical value.
 [3] Varta TR7/8 or Eveready N88 for rechargeable version.
 [4] Non-condensing.
 [5] See PCB Declaration of Conformance PS038 for details.

SUPPLIED ACCESSORIES:

None



All specifications are at room temperature unless otherwise specified.

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In the interest of constant product improvement, we reserve the right to change specifications without notice.

Form DD030 Rev.F 2/23/99

Drawn:	Engineer:	Sales:	Approved:	Spec Number:
Date: 3/24/03	Date: 3/25/03	Date: 3/25/03	Date: 3/26/03	11285



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