

Model Number
687A01

HANDHELD VIBRATION METER KIT

Revision: E
ECN #: 18770

ELECTRICAL CHARACTERISTICS

	<u>ENGLISH</u>	<u>SI</u>	
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	
Accelerometer Sensitivity ($\pm 20\%$)	100 mV/g	100 mV/g	
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:			
Accelerometer	-65 to +250 °F	-54 to +121 °C	
Meter	+32 to +122 °F	0 to +50 °C	[4]

MECHANICAL CHARACTERISTICS

Complete Kit:			
Size (L x W x H)	15 x 11 x 4.375 in	381 x 279,4 x 111,1 mm	
Weight	3.90 lb	1,77 kg	
Sensor:			
Size (Hex x Height)	11/16 x 1.65 in	18 x 42,2 mm	
Weight	1.8 oz	51 gm	
Mounting Thread (female)	1/4-28 UNF	Not Applicable	
Meter:			
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 Battery
 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.

SUPPLIED ACCESSORIES:





Model 687A02 Meter
 Model 603C01 Sensor
 Model 050BQ006AC Cable
 Model 070A47 Headphones
 Model 080A131 Magnet

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: 11-17-03	Date: 2/10/04	Date: 2/14/04	Date: 2/16/04	11284



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