

Model Number <b>699A07</b>	<h1>PORTABLE VIBRATION CALIBRATOR</h1>	Revision: A ECN #: 48972
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Maximum Load	800 gm	800 gm	[4]
Frequency Range(operating, 100 gram payload)	5 to 10,000 Hz	300 to 600,000 cpm	
Accuracy(10 Hz to 10 khz)	± 3 %	± 3 %	
Accuracy(5 Hz to 10 Hz)	± 5 %	± 5 %	
Accuracy(Velocity (10 Hz to 1000 Hz))	± 3 %	± 3 %	
Accuracy(Displacement (30 Hz to 150 Hz))	± 3 %	± 3 %	
Amplitude Linearity(100 gram payload, 100 Hz)	1 %	1 %	[5]
Distortion(100 gram payload, 30 Hz to 2 kHz)	<5 %	<5 %	[6]
Maximum Amplitude(Acc 100 Hz no payload)	20 g pk	196 m/s <sup>2</sup> pk	
Maximum Amplitude(Vel 100 Hz no payload)	15 in/sec pk	380 mm/s pk	
Maximum Amplitude(Displ 100 Hz no payload)	50 mils pk-pk	1.27 mm pk-pk	
<b>Control Interface</b>			
Test Sensor In	Voltage or ICP®	Voltage or ICP®	[1]
Bias Fault Indication (ICP® Sensors)	Yes	Yes	
External Source In (Max)	1V AC RMS	1V AC RMS	
Monitor Reference Out	10 mV/g (nominal), Buffered internal reference output g pk & RMS	10 mV/g (nominal), Buffered internal reference output m/s <sup>2</sup> pk & RMS	
Display Units(Acceleration)	in/sec pk & RMS	mm/sec pk & RMS	
Display Units(Velocity)	mils pk-pk	um pk-pk	
Display Units(Displacement)	Hz	CPM	
Display Units(Frequency)	mV/EU	mV/EU	[2]
Test Sensor Sensitivity			
<b>Environmental</b>			
Temperature Range(Operating)	32 to 122 °F	0 to 50 °C	
<b>Electrical</b>			
Power Required(Internal Battery (sealed solid gel lead acid))	12 VDC, 4 amp hours	12 VDC, 4 amp hours	
Power Required(AC Power (for recharging battery))	110-240 V, 50-60 Hz	110-240 V, 50-60 Hz	
Battery Life(100 gram payload, 100 Hz 1g pk)	18 hours	18 hours	[3]
Battery Life(100 gram payload, 100 Hz 10g pk)	1 hour	1 hour	[3]
<b>Physical</b>			
Storage	Up to 500 calibration records	Up to 500 calibration records	
Points Per Record	30 calibration data points	30 calibration data points	
Sensor Information	Model number, serial number, Mounting orientation (x, y, z), user notes	Model number, serial number, Mounting orientation (x, y, z), user notes	
Export File Format	CSV (comma-separated values)	CSV (comma-separated values)	
USB Port	Export to flash drive (FAT 32)	Export to flash drive (FAT 32)	
Size (Depth x Height x Width)	10 in x 8.5 in x 12 in	28 cm x 22 mm x 30.5 cm	
Weight(with batteries)	18 lb	8.2 kg	
Mounting Thread	1/4-28 Female	No Metric Equivalent	
<i>All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice.</i>			
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**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.

**NOTES:**

[1] 5 mA constant current excitation to ICP® (IEPE) sensor.  
 [2] EU can be [g], [m/s<sup>2</sup>], [mm/s], [in/s], [mils] or [um]  
 [3] As shipped from factory in new condition  
 [4] Operating range reduced at higher payloads. Reference manual for full details.  
 [5] Up to 10g pk  
 [6] Up to 5g pk

**SUPPLIED ACCESSORIES:**

Model 080A118 Mounting pad 1.0" diameter 1/4-28 tapped hole (for stud mounting accelerometers) (1)  
 Model 081A08 Mounting Stud (10-32 to 1/4-28) (1)  
 Model 081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (1)  
 Model 600A25 Power Supply and Plug Adaptors (1)  
 Model 600A34 Mounting Wrench (1)  
 Model ICS-41 NIST traceable Certificate of Calibration, Metric & English Units (1)  
 Model USB DRIVE Flash Drive with Calibration Report Generation Worksheet (1)

**OPTIONAL ACCESSORIES:**

Model 600A31 Calibration route semi-automation & pass/fail notification (1)  
 Model 600A33 Modulated current sensors power supply and measurement: Test Sensor Sensitivity units of readout are mV/EU, mA/EU or uA/EU, Test Sensor Input/output Voltage, ICP or Modulated current. Includes USB to 24 VDC power supply (600A39). (1)

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