



M O D F I 9 1 0 0 D

PORTABLE SHAKER TABLE

- Confirm Critical Vibration Shutdown Alarms & Logic
- Detect Sensor Drift & Amplified Outputs at Key Frequencies
- Prevent Early or Late Shutdowns Due to Proximity Probe Errors
- Compliance to API 670 & ISO 9001
- Reduce Replacement Instrumentation Costs
- Protect Against Catastrophic Failures
- Validate Channel Setup Prior to Critical Tests

TYPICAL APPLICATIONS

- 4-20 mA Loop Velocity Vibration Transmitters
- Proximity Probe Testing and Checks for Mismatched Systems
- Moving Coil Vibration Sensors
- Condition Monitoring System, Process Control, DCS, and SCADA
- Portable Vibration Meters and Analyzers

VIBRATION FIELD TESTING

The 9100D Portable Shaker Table is the ideal tool to field check accelerometers, velocity transducers and proximity probes over a wide operating frequency and amplitude range. The unit is a small, self-contained vibration reference source, used to validate the entire channel of transducers through measurement, monitoring, or recording systems.

With an integral, precision quartz reference accelerometer, the shaker table is built with robust carbon fiber composite armature flexure supports, capable of simulating vibration on payloads up to 800 grams. The unit allows calibrations over a frequency range of 5 Hz to 10 kHz, and closed-loop level control makes the shaker much easier to use than other portable field calibrators. Direct BNC connection to the reference accelerometer allows users to check the integrity of the shaker and reference. The device is supplied with an A2LA accredited calibration certificate.

New CALROUTE firmware allows technicians to program repetitive test points such as alert and shutdown thresholds at machine running speed. Once programmed via supplied Microsoft Excel® CALROUTE Generation Workbook, the Instrumentation and Controls personnel can test system linearity, accuracy, and shutdown logic in seconds. No additional software is needed.

The Model 9100D mechanically simulates vibration in acceleration, velocity, and displacement in both English and metric scales, running on battery power for up to 18 hours. Vibration is controlled via the internal reference accelerometer, eliminating the need for technicians to manually enter the payload of the sensor under test.

Performance Frequency Range (operating) [1] 5 Hz to 10 kHz 300 to 600k CPM Maximum Amplitude (50 Hz, 10-gram payload) 20 g pk 196 m/s² pk Maximum Amplitude (50 Hz, 500-gram payload) 2.5 g pk 24.5 m/s² pk Maximum Payload [12] 800 grams Maximum Payload Calculation Manual (Closed Loop) or Semi-Automatic Auto-Payload Calculation Controlled via Reference Accelerometer, No User Entry Required Memory Storage of Calibration Settings for Accuracy Programmability Up to 30 Test Points per Routine Acceleration (10 Hz to 10 kHz) ±3 % [4] Acceleration (5 Hz to 10 Hz) ±5 % [4] Velocity (10 Hz to 100 Hz) ±3 % Velocity (10 Hz to 100 Hz) ±3 % Mayeform Distortion (30 Hz to 2 kHz) [1] <1 % up to 10 g pk Waveform Distortion (30 Hz to 2 kHz) [1] <1 % up to 10 g pk Units of Readout Field Drift Test Procedure Provided [8] Units of Readout Field Drift Test Procedure Provided [8] Acceleration (pk and RMS) g m/s² Units of Readout Field Drift Test Procedure Provided [8]	SPECIFICATIONS		
Maximum Amplitude (50 Hz, 10-gram payload) 20 g pk 196 m/s² pk Maximum Amplitude (50 Hz, 500-gram payload) 2.5 g pk 2.4 s m/s² pk Maximum Amplitude (50 Hz, 500-gram payload) 2.5 g pk 2.4 s m/s² pk Maximum Payload I²! 800 grams Test Operation Manual (Closed Loop) or Semi-Automatic Controlled via Reference Accelerometer, No User Entry Required Memory Stores Semi-Automated Test Routine Non-Volatile Memory Stores Semi-Automated Test Routine Accuracy of Readout I®! Up to 30 Test Points per Routine Acceleration (10 Hz to 10 kHz) ±3 % I*I Acceleration (5 Hz to 10 Hz) ±5 % I*I Acceleration (5 Hz to 10 Hz) ±3 % Velocity (10 Hz to 1000 Hz) ±3 % Displacement (30 Hz to 150 Hz) ±3 % Amplitude Linearity (100 Hz) I ¹¹ <1 % up to 10 g pk	Performance		
Maximum Amplitude (50 Hz, 10-gram payload) 20 g pk 196 m/s² pk 20 in/s pk 500 mm/s pk 150 mils pk-pk 3.8 mm pk-pk 3.5 mm pk-	Frequency Range (operating) [1]	5 Hz to 10 kHz	300 to 600k CPM
Maximum Amplitude (50 Hz, 10-gram payload) 20 in/s pk 500 mm/s pk Maximum Amplitude (50 Hz, 500-gram payload) 2.5 g pk 24.5 m/s² pk Maximum Amplitude (50 Hz, 500-gram payload) 2.5 g pk 24.5 m/s² pk Maximum Payload (21) 800 grams Test Operation Manual (Closed Loop) or Semi-Automatic Auto-Payload Calculation Memory Stores Semi-Automated Test Routine Non-Volatile Memory Programmability Up to 30 Test Points per Routine Accuracy of Readout (31) 43 % (4) Acceleration (10 Hz to 10 kHz) ±3 % (4) Acceleration (5 Hz to 10 Hz) ±3 % (4) Velocity (10 Hz to 1000 Hz) ±3 % (4) Amplitude Linearity (100 Hz) (11) <1 % up to 10 g pk		20 g pk	196 m/s² pk
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Maximum Payload 2 800 grams 800 g	(50 Hz, 10-gram payload)	150 mils pk-pk	3.8 mm pk-pk
Maximum Payload 2 800 grams	Maximum Amplitude	2.5 g pk	24.5 m/s ² pk
Manual (Closed Loop) or Semi-Automatic Controlled via Reference Accelerometer, No User Entry Required Memory Stores Semi-Automated Test Routine Storage of Calibration Settings for Accuracy Programmability Up to 30 Test Points per Routine Accuracy of Readout [3] Acceleration (10 Hz to 10 kHz)	(50 Hz, 500-gram payload)	3.5 in/s pk	90 mm/s pk
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No User Entry Required	Test Operation	Manual (Closed Loop) or Semi-Automatic	
Non-Volatile Memory Storage of Calibration Settings for Accuracy	Auto-Payload Calculation	1	
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Acceleration (10 Hz to 10 kHz)	Programmability	Up to 30 Test Points per Routine	
Acceleration (5 Hz to 10 Hz)	Accuracy of Readout [3]		
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Waveform Distortion (30 Hz to 2 kHz) [1] Accuracy Verification Test Units of Readout Acceleration (pk and RMS) Velocity (pk and RMS) Displacement (pk to pk) Frequency Physical Internal Battery (sealed solid gel lead acid) AC Power (for recharging battery) Input Power Rating from charger 12 VDC, 4 amp hours AC Operating Battery Life [6] 100 Hz, 1 g pk [1] 100 Hz, 10 g pk [1] External Source In (max) Monitor Reference Out USB Port Displacement (pk to pk) Field Drift Test Procedure Provided [5] Monitor Reference Out S THD (typical) up to 5 g pk Field Drift Test Procedure Provided [5] Mm/s² In/s Mm/s Mm/s Mm/s Mils µm 12 VDC, 4 amp hours 12 VDC, 4 amp hours 13 Volts DC, 1 A Derating Battery Life [6] 100 Hz, 10 g pk [1] 1 hour External Source In (max) 1 VAC RMS Monitor Reference Out Used for Loading Semi-Automated Test Routines (Model CALROUTE) & provides power for external power supplies Dimensions (H x W x D) 8.5 x 12 x 10 in 22 x 30.5 x 28 cm Weight 18 lb 8.2 kg Operating Temperature 32 °F-122 °F O °C-50 °C	Displacement (30 Hz to 150 Hz)	±3 %	
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Weight 18 lb 8.2 kg Operating Temperature 32 °F-122 °F 0 °C-50 °C	Dimensions (H x W x D)	8.5 x 12 x 10 in	22 x 30.5 x 28 cm
Operating Temperature 32 °F-122 °F 0 °C-50 °C	,	18 lb	8.2 kg
1 0 1	Operating Temperature	32 °F–122 °F	_
	1 0 1		

Supplied Access	sories ^[7]	
081B20	1/4-28 to 1/4-28 Adaptor	
081A08	10-32 to 1/4-28 Adaptor	
9100-CAL01	NIST Traceable Certificate of Calibration, Accredited to ISO 17025 by A2LA	
M081A63	M8 x 1.25 M to 1/4-28 M Mounting Stud	
PVC-MNT01	M8 x 1.25 F Thru Hole Mounting Pad	
PVC-HTMNT01	Mounting Plate, 3- & 4-Hole High-Temp Vibration Sensors [9]	
PVC-HTMNT02	Mounting Plate, 3- & 4-Hole High-Temp Vibration Sensors [9]	
CALROUTE	USB Flash Memory Drive: Loaded with CALROUTE Workbook	
Quickstart Guide	Available in English, Chinese, Japanese, Polish, & Russian	
Warranty	2 Years, Inclusive of Drift/Accuracy	
Technical Support	Training Webinars Available Upon Request, 24/7 Video Library	
Optional Accessories [7]		
9100-PPASH	Proximity probe adaptor kit for testing probes mounted inside a probe holder	
9100-PPA01	Proximity probe adaptor kit for probes with 5 mm or 8 mm tip diameter [8]	
9155-MNT93	1/2-20 F to 1/4-28 F Mounting Pad	
9155-MNT43	1/4" NPT F Mounting Adaptor to 1/4-28 M	
9155-MNT73	3/8-24 M to 1/4-28 M Mounting Stud	
9100-PS02	24 VDC Power Supply for testing 4-20 mA Loop-Powered Vibration Transmitters, Non-ICP 24 VDC Velocity Sensors & Modulated Current Output Vibration Sensors and Charge Amplifiers. USB Powered.	
9100-PS02- CBL01	3-socket MIL cable used with 9100-PS02 for testing GE/Bently Nevada® 3-pin MIL case mounted vibration sensors. Spade Lug terminations & BNC output for signal.	
9100- PS04-TM	5 VDC Power Supply for testing GE/Bently Nevada® Trendmaster® Vibration Sensors. USB powered. Integral 5-pin Mating Cable.	
9100-PS07-PT	15 VDC Power Supply for Testing Pruftechnik CLD Vibration Sensors	
9100- Training	On-Site Seminars Available Upon Request	

Meets API 670 requirements for all required test points in acceleration or velocity from 10 Hz to 1000 Hz & payloads to 800 grams.

- [1] 100-gram payload [2] Operating range reduced at higher payloads. Reference manual for full details. [3] Measured with 10-gram quartz reference accelerometer
- [4] Calculated by measuring the % difference between the known sensitivity of a reference accelerometer as calibrated by laser primary system per ISO 16063-11 and the measured sensitivity of same reference accelerometer when tested at the same points
- [5] Test is conducted independently of product firmware with calibrated voltmeter.
- [6] As shipped from factory in new condition
- [7] For a comprehensive list of available accessories, see Product Spec Sheet or call
- [8] For metric unit micrometer, use Model 9100-MPPA01
- [9] Mounting plates support sensors listed. Multi-hole mounting plates are convenient but not optimized for the best calibration results. The Modal Shop offers a full line of customized mounting pads validated in our calibration lab for precise results. Contact us for more information.

B&K: 8324 Bently Nevada: 330450, 330750, 350900 CEC: 4-123, 4-125, 4-126, 4-128, 4-130, 4-137, 4-138, 4-170, 4-171

Dytran: 3085C and 3235 series

Endevco: 6233C, 6222M, 6222S, and 6240 Series

Metrix: 5485C, SA6350

PCB Piezotronics: 357 & EX600B series, EX615A42 and EX619A11 Vibro-Meter: CA 134, CE 134, CA 202,

CA 280, CE 281, CA 303, CA 306, CE 311



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