



Model 9110D

PORTABLE VIBRATION CALIBRATOR

Benefits

- Field validation of vibration sensors, proximity probes, and related monitoring equipment
- Battery-powered for up to 18 hours
- Rugged and portable
- Internal memory and USB flash drive output
- Easy certificate of calibration
- Complete turnkey system

Applications

- 4-20 mA loop velocity vibration transmitters
- Eddy current probes / proximity probes
- Moving coil vibration sensors
- Condition monitoring system, process control, DCS, and SCADA
- Portable vibration meters and analyzers

The 9110D Portable Vibration Calibrator is the ideal tool for checking accelerometers, velocity transducers, and proximity probes over a wide operating frequency and amplitude range. The unit is a compact, battery-powered, and completely self-contained vibration reference source, which can be conveniently used to calibrate individual sensors, vibration switches, and data collectors, as well as to validate the entire measurement channel of a condition monitoring or recording system. An integral precision quartz reference accelerometer and closed-loop level control gives the 9110D enhanced stability and superior vibration calibration over an extended 5 Hz to 10 kHz frequency range. Packaged in a rugged Pelican® Storm case, the 9110D is always ready for travel to test sites, bringing laboratory accuracy to the field.

Additional features include an ICP® or voltage test sensor input for direct connection and readout of the most common types of accelerometers and velocity transducers. The test sensor sensitivity is calculated and displayed on the screen in real time. The unit's internal memory capability can store up to 500 calibration records, and data can be easily transferred to a computer through a USB flash drive. This allows for the creation and printing of ISO 17025-compliant, customizable calibration certificates and reports using the supplied Excel® worksheet template.



More Product Information at
www.modalshop.com/vibration-calibrator



MODEL 9110D SPECIFICATIONS

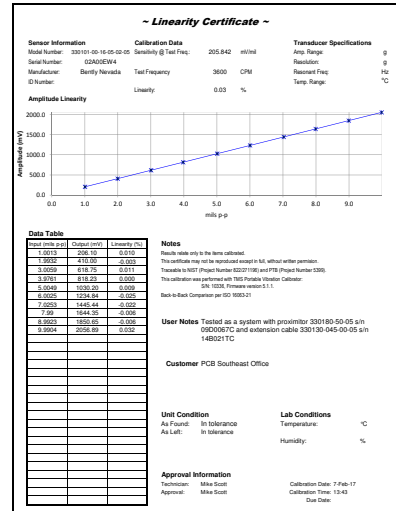
Table with 3 columns: Performance, US, and SI. Rows include Frequency Range, Maximum Amplitude, Acceleration, Velocity, Displacement, Maximum Payload, Accuracy of Readout, Units of Readout, and Physical properties.

Physical

Table with 3 columns: Performance, US, and SI. Rows include Test Sensor In, Bias Fault Indication, External Source In, Monitor Reference Out, Internal Battery, Charging Adaptor, Input Power Rating, Operating Battery Life, Memory Size, Points Per Record, Sensor Information, USB Port, Export File Format, Operating Temperature, Dimensions, Weight, and Sensor Mounting Platform Thread Size.

[1] Operating range reduced at higher payloads. Reference manual for full details. [2] 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.

[3] As shipped from factory in new condition. [4] Microsoft Excel® required.



Calibration Certificate

Table with 2 columns: Accessory Pouch and Optional Accessories. Rows list items like PD-1320-01 Mounting Wrench, 9100-PS01 Universal Power Supply, 081B20 Adaptor, 081A08 Adaptor, 080A118 Mounting Pad, 9110-USB USB Flash Drive, 9100-MNTKIT Mounting accessory kit, 9105D Transfer standard reference accelerometer, 9100-MPPA01 Proximity probe adaptor kit (metric), 9100-PPA01 Proximity probe adaptor kit, 9100-PPA02 Target for proximity probe (AISI 4140), 9100-PS01 18 VDC, 1 amp power supply/charger, 9100-PS02 Modulated current & 4-20 mA vibration sensor USB power supply, and 9100-BAT01 Replacement battery.



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The Modal Shop, Inc. offers structural vibration and acoustic sensing systems and services for various applications in design and test laboratories as well as manufacturing plants. An extensive sound and vibration rental program, precision calibration systems, and both modal and vibration shakers are designed to simplify test phases. Non Destructive Testing Systems help manufacturers provide 100% quality inspection of metal components. The Modal Shop, Inc. is a subsidiary of PCB Piezotronics, Inc., and PCB® is a wholly owned subsidiary of MTS Systems Corporation. Visit The Modal Shop at www.modalshop.com. Additional information on MTS can be found at www.mts.com.