







MODEL 9210D

LOW FREQUENCY PORTABLE VIBRATION CALIBRATOR

- Verify Alert and Alarm Settings
- Simulate Vibration at Actual Running Speeds
- Rugged, Lightweight, and Battery-Powered Design
- On-Site ISO 5041 HVM Calibrations
- Ensure Accuracy of Critical Structural Tests
- Proximity Probe Adaptor Kit

TYPICAL APPLICATIONS

- Hydro and Nuclear Power
- Human Vibration Measurement
- Seismic, Building Vibration
- Moving Coil Vibration Sensors
- Condition Monitoring System, Process Control, DCS and SCADA
- Portable Vibration Meters and Analyzers

REDUCE PERCEIVED RISK

The 9210D Low Frequency Portable Vibration Calibrator is the world's first and only ISO 17025-accredited, NIST-traceable portable vibration calibrator capable of creating calibration certificates for critical instrumentation used to protect slow speed rotating equipment. Until now, technicians were required to remove moving coil velocity sensors, low frequency accelerometers and proximity probes during an outage and send these instruments to a separate lab for calibration. Battery-powered, rugged and portable, the Model 9210D brings low frequency calibration to the plant floor, allowing users to verify all aspects of their measurement chain, confirm correct operation of critical alarm thresholds, and create a printable, traceable calibration records.

Immediate instrument verification is available via sensitivity display on the brightly lit LCD screen. The test sensor input supplies ICP[®] power or can be toggled to voltage mode, allowing the unit to calculate sensitivity and create calibration certificates for Eddy current probes and moving coil velocity sensors. ISO 17025-compliant calibration certificates are created via Microsoft[®] Excel macro for both linearity and frequency response.

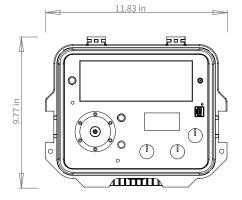
An internal high-resolution quartz reference accelerometer provides unparalleled accuracy while the rugged carbon fiber composite armature supports heavy payloads. A durable Pelican[®] Storm Case and long battery life make it ideal for use on the plant floor. Closed-loop control shortens calibration time. The 9210D can be scaled in displacement, velocity or acceleration (metric or English units) with 0.7 Hz to 2 kHz frequency range (42 to 120 000 CPM).

PerformanceFrequency Range (operating, 100 gram payload) 0.7 Hz to 2 kHz 42 to 120k CPM Max Acceleration (100 Hz, no payload) 2 g pk $19.6 \text{ m/s}^2 \text{ pk}$ Max Velocity (10 Hz, no payload) 20 0mils pk-pk 305 mm/s pk Maxinum Payload ^[11] 800 gram 305 nm pk-pk Maxinum Payload ^[11] 800 gram 5 mm pk-pk Maxinum Payload ^[11] 800 gram 420 mls pk-pk Acceleration and Velocity (2 Hz to 2 kHz) ^[21] (71] $\pm 3 \text{ W}$ Acceleration and Velocity (0.7 Hz to 2 kHz) ^[21] (71] $\pm 10 \text{ W}$ Displacement (1 Hz to 15 Hz) ^[31] $\pm 3 \text{ W}$ Displacement (1.7 Hz to 150 Hz) ^[31] $\pm 10 \text{ W}$ Amplitude Linearity (100 gram payload, 100 Hz)Typically < 15 %Waveform Distortion (>20 Hz to 2 kHz)Typically < 10 %Waveform Distortion (>20 Hz to 2 kHz)Typically < 7 %Acceleration (peak and RMS)gm/s²Velocity (peak and RMS)in/smm/sDisplacement (peak to peak)millsµmFrequencyHzCPMTest Sensor InVoltage $100 \text{ mV/s} \text{ kLP} \text{ representive}$ Physical100 mV/g buffered intermal reference outputInternal Battery (sealed solid gel lead acid)11 V AC RMSMonitor Reference Out100 mV/g buffered intermal reference outputInternal Battery (sealed solid gel lead acid)14 hoursAC Power (for recharging battery)110-240 VDC, 50-60 Hz </th <th>SPECIFICATIONS</th> <th></th> <th></th>	SPECIFICATIONS		
(operating, 100 gram payload)0.7 H2 to 2 KH242 to 120 k CPMMax Acceleration (100 Hz, no payload)2 g pk19.6 m/s² pkMax Velocity (10 Hz, no payload)12 in/s pk305 mm/s pkMax Displacement (1 Hz, no payload)200 mils pk-pk5 mm pk-pkMaximum Payload I ¹¹ Acceleration and Velocity (2 Hz to 2 kH2) ^{[21 [7]} $\pm 3 \vee$ Acceleration and Velocity (2 Hz to 2 kH2) ^{[21 [7]} $\pm 10 \%$ Displacement (3 Hz to 15 Hz) ^[3] Displacement (3 Hz to 150 Hz) ^[3] $\pm 10 \%$ Displacement (0.7 Hz to 150 Hz) ^[3] (100 gram payload, 100 Hz) $< 1 \%$ up to 2 g pkWaveform Distortion (5 Hz to 20 Hz)Typically < 15 \%Waveform Distortion (5 Hz to 20 Hz)Typically < 7 \checkmark Acceleration (peak and RMS)gmm/sUelocity (peak and RMS)in/smm/sDisplacement (peak to peak)millsµmFrequencyHzCPMTest Sensor InVoltageICP® [8]Test Sensor InVoltage100 mV/g buffered internal reference outputInternal Battery (sealed solid gel lead acid)14 NoursAC Power (for recharging battery)110-240 VDC, 50-60 HzInput Power Rating from charger32 °F-122 °F0 °C-50 °CDimensions (H x W x D)8.5 x 12 x 10 in22 x 30.5 x 28 cmWeight18 lb8.2 kgSensor Mounting Platform Thread Size14-2814-28	Performance		
(100 Hz, no payload)2 g pk19.6 m/s² pkMax Velocity (10 Hz, no payload)12 in/s pk305 mm/s pkMax Displacement (1 Hz, no payload)200 mils pk-pk5 mm pk-pkMaximum Payload ^[11] 8000 gramsAcceleration and Velocity (2 Hz to 2 kHz) ^{[21 [7]} $\pm 10 \%$ Displacement (3 Hz to 15 Hz) ^[31] $\pm 3 \%$ Displacement (1 Hz to 150 Hz) ^[31] $\pm 10 \%$ Displacement (0.7 Hz to 150 Hz) ^[31] $\pm 2 d B$ Amplitude Linearity (100 gram payload, 100 Hz)Typically < 15 %		0.7 Hz to 2 kHz	42 to 120k CPM
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Maximum Payload ^[1] 800 gramsAcceleration and Velocity (2 Hz to 2 kHz) ^{[2] [7]} $\pm 3 \%$ Acceleration and Velocity (0.7 Hz to 2 kHz) ^{[2] [7]} $\pm 10 \%$ Displacement (3 Hz to 15 Hz) ^[3] $\pm 10 \%$ Displacement (1 Hz to 150 Hz) ^[3] $\pm 10 \%$ Displacement (0.7 Hz to 150 Hz) ^[3] $\pm 2 dB$ Amplitude Linearity (100 gram payload, 100 Hz)(<1 % up to 2 g pk	Max Velocity (10 Hz, no payload)	12 in/s pk	305 mm/s pk
Acceleration and Velocity (2 Hz to 2 kHz) $^{[2]}$ [7] $\pm 3 \%$ Acceleration and Velocity (0.7 Hz to 2 kHz) $^{[2]}$ [7] $\pm 10 \%$ Displacement (3 Hz to 15 Hz) $^{[3]}$ $\pm 10 \%$ Displacement (1 Hz to 150 Hz) $^{[3]}$ $\pm 10 \%$ Displacement (0.7 Hz to 150 Hz) $^{[3]}$ $\pm 2 d B$ Amplitude Linearity (100 gram payload, 100 Hz) $< 1 \%$ up to 2 g pkWaveform Distortion (1 Hz to 5 Hz)Typically < 15 %	Max Displacement (1 Hz, no payload)	200 mils pk-pk	5 mm pk-pk
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Waveform Distortion (>20 Hz to 2 kHz)Typically < 7 %Acceleration (peak and RMS)gm/s²Velocity (peak and RMS)in/smm/sDisplacement (peak to peak)mils μ mFrequencyHzCPMTest Sensor SensitivitymVEU [4]PhysicalTest Sensor InVoltageICP® (5)Test Sensor Input Voltage20 mV-10 V AC pk-pkBias Fault Indication (ICP® Sensors)YesExternal Source In (max)1 V AC RMSMonitor Reference Out100 mV/g buffered internal reference outputInternal Battery (sealed solid gel lead acid)12 VDC, 4 amp hoursAC Power (for recharging battery)110–240 VDC, 50–60 HzInput Power Rating from charger18 VDC, 1 AOperating Battery Life ⁽⁶⁾ 14 hours100 gram payload (100 Hz 1 g pk)14 hours100 gram payload (110 Hz 1 g pk)22 °F-122 °F0 °C-50 °CDimensions (H x W x D)8.5 x 12 x 10 in22 x 30.5 x 28 cmWeight18 lb8.2 kgSensor Mounting Platform Thread Size14-2814-28	Waveform Distortion (1 Hz to 5 Hz)	Typically < 15 %	
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100 gram payload (1 Hz 0.02 g pk) 7 hours 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 Weight 18 lb 8.2 kg Sensor Mounting Platform Thread Size 14-28 14-28	Operating Battery Life [6]		
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Weight 18 lb 8.2 kg Sensor Mounting Platform Thread Size 14-28 14-28	Operating Temperature	32 °F–122 °F	0 °C–50 °C
Sensor Mounting Platform Thread Size 14-28 14-28	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
Integral Armature Lock Supplied	Sensor Mounting Platform Thread Size	1⁄4-28	1⁄4-28
	Integral Armature Lock	Suppl	ied

Optional Accessories		
9105C	Transfer standard reference accelerometer and ICP [®] sensor signal conditioner, for calibration and system verification of the 9200 Series Calibrators.	
9100-MPPA01	Proximity probe adaptor kit, supports probes with common cass threads ranging from M6 to % in. Includes Mitutoyo micromete (metric) and 9100-PPA02 nickel-plated 4140 steel target.	
9100-PPA01	Proximity probe adaptor kit, supports probes with common cass threads ranging from M6 to ⅔ in. Includes Mitutoyo micromete and 9100-PPA02 nickel-plated 4140 steel target.	
Accessory Pouc	h	



Hydropower Plant



Model 9210D

Technical Drawing

 Operating range reduced at higher payloads. Reference manual for full details.
Measured with 30 gram quartz reference accelerometer.
Measured with laser displacement interferometer.
Heasured with laser displacement interferometer.
Image: increased measurement uncertainty.



PCB Synotech GmbH | Porschestraße 20 - 30 | 41836 Hückelhoven Tel.: 0 24 33/44 44 40 - 0 | info@synotech.de | www.synotech.de