ACCELEROMETERS

The most extensive offering of dynamic sensors from any manufacturer; utilizing piezoelectric and MEMS sensing elements with ICP®, charge, and DC voltage outputs.

- Over 200 stock models ranging from 1.0 μg to 200,000 g
- Frequency range: 0 Hz to 26 kHz
- Operating temperatures from -452 to +1,200 °F (-269 to +650 °C)
- Sensitivities from 0.05 mV/g (shock) to 10.0 V/g (seismic)
- Special models for high temperature, cryogenics, high frequency/filters, isolation

FORCE SENSORS

Dynamic and quasi-static sensors used in actuation, impact, impulse, reaction, and compression / tension; comprised of force rings, force links, and impact sensors.

- Over 50 models ranging from 10 lb to 100,000 lb (44.5 N to 444.8 kN)
- Frequency range: 0.0003 Hz to 100 kHz
- Operating temperatures from -100 to +400 °F (-73 to +204 °C)
- Sensitivities from 0.05 mV/lb to 2,200 mV/lb
- ICP® & charge outputs available
ACOUSTICS

A diverse offering of sound measurement products, including prepolarized (0V), externally polarized (200V), and array microphones. Complemented by an assortment of preamplifiers, signal conditioners, filters, handheld calibrators, and accessories.

- Dynamic ranges from 6.5 dBA to 183 dB
- Frequency range: 0.1 Hz to 100 kHz
- Operating temperatures from -40 to +1,472 °F (-40 to +800 °C)
- Sensitivities from 0.25 mV/Pa to 450 mV/Pa
- Special models for 48V phantom power, water and dust concerns, ATEX hazard approved, and more

PRESSURE SENSORS

Dynamic and static pressure sensors with the ability to measure small pressure fluctuations at high static pressures. Used in many applications such as: blast / ballistic, wind tunnels, hydraulic / pneumatic systems, and general pressure measurement requiring fast rise time with a wide dynamic range.

- Over 100 models ranging from 1 psi to 120,000 psi
- Frequency range: 0 Hz to 1 MHz
- Operating temperatures from -320 to +1,200 °F (-196 to +650 °C)
- Sensitivities from 0.05 mV/psi to 5,000 mV/psi
- Special models for high temperature, cryogenics, media compatibility, isolation
Create Calibration Certificates for Vibration Instrumentation

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Calibrate Vibration Analyzers & Meters In-House

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Confirm Critical Vibration Shutdown Alarms & Logic

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Detect Sensor Drift & Amplified Outputs at Key Frequencies

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Prevent Early or Late Shutdowns Due to Proximity Probe Errors

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Compliance to API 670 & ISO 9001

TYPICAL APPLICATIONS

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In-House Calibration of Vibration Instrumentation

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Safety Instrumented Systems (SIS)

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Loop Checks & System Troubleshooting, DCS & PLC

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Proximity Probe Testing and Checks for Mismatched Systems

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On-Turbine Vibration Sensors & Charge Amplifiers

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®, voltage, charge mode or modulated current 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® workbook template. The workbook is also used to program repetitive tests into the calibrator along with pass/fail tolerances for each data point.

New CALROUTE firmware allows technicians to program repetitive calibration test points and pass/fail tolerances. Once programmed via supplied Microsoft Excel® workbook, technicians can perform calibrations rapidly and receive instant pass/fail feedback. No additional software is needed to program the calibrator or create reports.