



AT-2050

Accelerometer Test System

Comprehensive system for calibrating accelerometers

Applications

- Cabling and wiring troubleshooting
- Vibration signal simulation— accelerometers and velocity probes
- Machinery speed signal simulation
- Calibration of:
 - Accelerometers
 - Proximity probes and drivers
 - Monitoring systems
 - Charge amplifiers
 - Avionics equipment

Advanced Features

- Sensor simulation
- Built-in sensor signal conditioner
- Custom sensor can be configured to meet specific sensor needs
- Built-in charge amplifier
- Programmable sensor voltage
- Automatic mass load correction
- Dual USB ports
- Advanced computer algorithms for accurate readout

AT-2050 Accelerometer Test System is designed to provide precision calibration of velocity pickups, transmitters, IEPE accelerometers, piezoelectric accelerometers, both single-ended charge accelerometers and differential output charge accelerometers, piezo resistive (PR) accelerometers, and variable capacitance (VC) accelerometers.

AT-2050 is the only calibrator capable of measuring these signals directly without external equipment or external charge signal converter. AT-2050 is a fully self contained, loop controlled, system with a vibration exciter and amplifier.

AT-2050 also features the same award winning simulation feature found on Agate AT-2040 model for simulation of various sensor types. This is the fastest and most efficient way to test and calibrate meters, control equipment, or cables.

The shaker includes 8 mounting adapters consisting of, 5 threaded adapters, one adhesive mount, and two universal disc – one for velocity pickups and the other for triangular accelerometers.

Full automatic test mode requires absolutely no user interaction. Simply setup your required frequency and amplitude plot points and AT-2050 does all the work for you. Results are saved to the 16 GB internal memory with virtually unlimited report storage capabilities. Certificate test can then be exported in PDF or CSV.

Functionality

- Create calibration certificates for vibration instruments.
- Test all types of vibration sensors and transducers from a variety of accelerometer and eddy current probe manufacturers.
- Test and verify performance of vibration system meters, portable data collectors, and cabling by using an accurate and traceable signal generator to simulate a variety of sensors.
- Identify and quickly address issues in vibration system setup with the assistance of user-friendly software tools.
- Control AT-2050 from a remote location by ethernet connection