

Endevco®

## Accelerometer Simulator Model 4830B



The 4830B accelerometer simulator is a hand held battery operated signal generator designed specifically to simulate the electrical output of common types of accelerometers. The instrument contains a highly accurate oscillator with an adjustable output level and is ideal for setting up, testing and the diagnosis of faults within data acquisition systems, FFT analyzers, environmental test systems or simply as a flexible signal generator.

4830B provides AC output signals which mimic those of either voltage mode accelerometers (generic IEPE, Isotron® types etc.) or charge mode accelerometers (both single ended and differential configurations). The simulation outputs are conveniently scaled in units of acceleration, i.e. "g", as mV/g (millivolt) or pC/g (pico-coulomb) signals as appropriate, although the outputs can be configured to be proportional to units of velocity or displacement. An auto-calculating on screen "vibration calculator" provides the user with corresponding values in respect of m/s<sup>2</sup>, ips, mils, mm and m/s based units.

4830B features a TTL compatible tachometer output which allows operators of condition monitoring systems to set signal conditioning tracking filter center frequencies without the need to generate an external, real time tachometer signal. The tachometer frequency is adjustable as a ratio of the respective output signal frequency.

4830B also features the ability to analyze a vibration signal using a Fast Fourier Transfer function. This allows a voltage proportional vibration signal to be inputted to the instrument thereby providing an indication of both frequency and magnitude.

Simulation parameters can be selected, adjusted, and saved as a "profile" either by the front panel keypad or using the supplied utility program. Use of the utility program allows profiles to be created and saved, as well as organized into specific "profile sets" which can be conveniently stored on a PC. Up to 40 user profiles may be downloaded to the simulator at any one time.

### Key features

- Battery operated, portable accelerometer simulator
- Simulates the electrical output signals generated by common measurement transducers
- Simplifies troubleshooting, verification, and calibration processes for test systems
- Ability to create, store, and recall up to 40 pre-set simulation profiles
- Adjustable, TTL based Tachometer output
- Analyze vibration signals with built in FFT function
- Two versions available: 4830B standard unit, 4830B-CAL- includes NIST calibration report

### Certifications







