



Applications

- · Troubleshoot cabling and wiring
- Calibrate:
 - Accelerometers
- Monitoring systems
- Proximity probes and drivers
- Avionics equipment

Advanced Features

- Digital closed-loop control
- · Long battery life
- Class-leading frequency and amplitude range
- · High-resolution color touch screen

Lithium Iron Phosphate Battery

- Longer lifespan & longer cycle life of up to 5,000 cycles at 80% depth of discharge, or 10 years.
- · Lighter weight
- More environmentally friendly than lead-acid batteries
- Higher constant power ensures full battery power at low charge
- · Ten times faster charging than lead-acid batteries
- Can withstand high temperatures without decomposing, and is non-flammable and non-toxic

AT2030

Portable Vibration Calibrator

Overview

AT2030 portable calibration shaker table is designed for simple accelerometer and vibration transducer calibration without the need for advanced features.

AT2030 is a variable frequency, variable amplitude, battery operated portable shaker capable of calibrating accelerometers, transducers, and proximity probes. Applications are producing a known vibration signal in g's, mils, or ips for sensor, wiring, instrumentation, and system checkout in vibration condition monitoring applications.

The superior accuracy of the AT2030 is ensured using a laser-calibrated primary reference, a precision quartz reference accelerometer, and closed-loop control employing distortion compensation algorithms. Calibration of the AT2030 and its accuracy has been accredited to ISO 17025 by a 3rd party, A2LA.

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.

Specifications

Performance		
Frequency Range (operating)[1]	5 Hz to 10,000 Hz	300 to 600,000 RPM
Maximum Amplitude	20 g pk	196 m/s² pk
(100 Hz, with no payload)	15 in/s pk	380 mm/s pk
	50mils p-p	1270 µm p-p
Maximum Payload [2]	800 grams	

Vibration Signal Accuracy		
Acceleration (5 Hz to 9 Hz)	±5%	
Acceleration (10 Hz to 10 kHz)	±3%	
Displacement (30 Hz to 150 Hz)	±3%	
Amplitude Linearity (100 gram payload, 100 Hz)	<1% up to 10g pk	
Waveform Distortion (100 gram payload, 30 Hz to 2kHz)	<5% THD (typical) up to 5g pk	

Physical		
Sensor Connectors	N/A	
Display	4.3" TFT LCD with 480×272 resolution	
Controls	2 dials with touch screen	
Dimensions (H \times W \times D)	10.6 × 9.7 × 6.9 in	27×24.6×17.4 cm
Weight	14.4 lb	6.5 kg
Sensor Mounting Platform Thread Size	1/4-28	
Operating Temperature	32-122°F	0-50°C
Agency Requirements and Certifications ^[4]	A2LA Accredited NIST Traceable EMC:EN61326-1 LVD:EN61010-1 ISO/IEC17025:2017 RoHS	

Readout		
Acceleration	g pk m/s² pk	g RMS m/s² RMS
Velocity	mm/s pk in/s pk	mm/s RMS in/s RMS
Displacement (peak to peak)	mils p-p	µт р-р
Frequency	Hz	RPM

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Power		
Internal Battery	12V DC	6 amp hours
Battery Type [3]	LiFePO4	
Battery Charge Time	1 hour	
Battery Life Expectancy	5,000 cycles @ 80% depth-of- discharge, or 10 years	
AC Power (for recharging battery)	100-240 V, 50-60 Hz, internal, standard plug	
Operating Battery Life		
100 gram payload, 100 Hz 1 g pk	10 hours	
100 gram payload, 100 Hz 10 g pk	1 hours	
Charger Type	Internal / Built-in	
Plug Type	Standard PC Wall Plug	

Accessories		
Included Accessories	 Power cable 2-56 adapter 10-32 UNF stud 1/4-28 stud 6-32 UNC adapter 10-32 UNF adapter 10-32 UNF adapter Universal Velocity Adapter Disc Universal Accelerometer Adapter Disc 	
Optional Accessories [4]	Proximity Probe Adapter Kit (digital or manual micrometer) Chadwick-Helmuth Velocimeter Cable Triaxial Accelerometer Adapter	
Warranty	2 years (includes drift/accuracy)	
Tech Support	Training webinars, email support	

- [1] 100 gram payload.
- [2] Maximum weight recommendations (click here to visit our website for a larger chart). Limited at lower frequencies to 0.1 inch (2.54mm) Peak displacement.
- [3] Lead-acid battery is an available option.
- [4] For comprehensive list, please consult the Product Spec Sheet or contact sales.

