

Model : AT 2030



ADVANCED FEATURES

- Crushproof and Locking
- Digital closed loop control
- Long battery life
- State of the art digital electronics
- Class leading Frequency and Amplitude range.
- High resolution Color Touch Screen
- USB Support
- Advanced Computer Algorithms for accurate readout

Overview

AT-2030 is designed as a portable battery powered unit for the testing and calibration of accelerometers, velocity transducers, proximity probes, control equipment, and cabling. Model AT-2030 provides a closed loop controlled reference signal from 7 Hz to 10,000Hz for testing over a wide frequency range to meet various application needs. Measuring at 15 lbs. with exterior case measurements of 10.62" x 9.68" x 6.87" AT-2030 is the lightest and smallest of all portable vibration shakers.

ACCESSORIES

Included

- PWR-100 Power Cable
- ACC- 100 Short Handle Wrench
- CAB 100 -Micro Dot (10-32) Cable
- MNT-104 1/4-28 Stud
- MNT-105 - 10-32 UNF Stud
- MNT 106 - 2-56 UNC Adapter
- MNT 107 -6-32 UNC Adapter
- MNT- 111 10-32 UNF Adapter

- CAB 101- Chadwick-Helmuth Velocimeter
- CAB-102 - IEPE Accelerometer 2 pin Mil
- CAB- 103 IEPE Accelerometer 3 pin Mil
- MNT-100 Replacement studs 1/4-28, 10-32. Adapters 2-56, 6-32, 10-32 (3 each)
- PRX-100 Proximity Probe Adapter Kit
- PRX-101 Proximity Probe Proximity adapters M6 to 3/8
- PRX-102 – Steel Target
- MNT-109 Mounting Stud 1/4-28 to 8-32
- MNT- 110 Adapter 1/4-28M to 3/8-24F
- MNT-108 1/4-28 Adapter

Not Included

SPECIFICATIONS FOR - AT 2030

GENERAL

Frequency Range (operating, 100 gram payload)	7 Hz to 10 kHz 420 to 600 k cpm
Maximum Amplitude (100 Hz with no payload)	20 g pk (196 m/s ² pk) 15 in/s pk (380 mm/s pk) 50 mils pk-pk (1270 µm pk-pk)

ACCURACY

Maximum Payload ^[1]	800 gram
Acceleration (30 Hz to 2 kHz)	±3%
Acceleration (7 Hz to 10 kHz)	±1 dB
Velocity (10 Hz to 1000 Hz)	±3%
Displacement (30 Hz to 150 Hz)	±3%
Amplitude Linearity (100 gram payload, 100 Hz)	< 1% up to 10 g pk

READOUT

Waveform Distortion (100 gram payload, 30 Hz to 2 kHz)	< 5% THD (typical) up to 5 g pk
Acceleration (peak and RMS)	g, m/s ²
Velocity (peak and RMS)	in/s, mm/s
Displacement (peak to peak)	mils, µm
Frequency	Hz, CPM

INPUT/OUTPUT

POWER

Internal Battery (sealed solid gel lead acid)	12 VDC, 6 amp hours
AC Power (for recharging battery)	110-240 Volts, 50-60 Hz
Operating Battery Life ^[2]	100 gram payload, 100 Hz 1 g pk 12 hours 100 gram payload, 100 Hz 10 g pk 1 hours

PHYSICAL

Dimensions (H x W x D)	8.5 in x 12 in x 10 in (22 cm x 30.5 cm x 28 cm)
Weight	18 lb (8.2 kg)
Sensor Mounting Platform Thread Size	1/4-28

[1] Operating range reduced at higher payloads. Reference manual for full details.
[2] As shipped from factory in new condition.