

- Sensor Simulation
- Built in -24v Proximity Probe Supply
- Programmable Sensor Current
- Programmable Sensor Voltage
- Automatic Mass Load Correction

ADVANCED FEATURES

- Touch Screen
- USB Support
- Sensor Library
- Advanced Computer Algorithms for accurate readout
- PDF Report Generation

INCLUDED ACCESSORIES

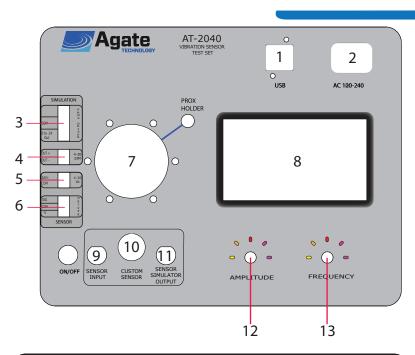
- Power Cable
- Short Handle Wrench
- Micro Dot (10-32) to BNC Cable
- 🕨 ¼-28 Stud
- 10-32 UNF Stud
- 2-56 UNC Adapter
- 6-32 UNC Adapter
- 10-32 UNF Adapter
- Universal Velocity Adapter Disc
- Universal Accelerometer Adapter Disc

Overview

AT-2040 is the leading portable vibration calibrator capable of measuring sensitivity readings for Voltage, IEPE, Charge accelerometers, and 4-20 ma transducers. Additionally, the AT-2040 provides a positive 24 volt supply for 4-20ma input sensors and negative 24 volts for proximity probe drivers.

In addition to testing sensors, the AT-2040 can test and verify performance of vibration system meters and cabling by using a built in signal generator to simulate current or voltage. AT-2040 can simulate a wide variety of accelerometers, proximity probes, and other transducers that can be fed back into drivers, cabling, connectors, and meters for quick work on system checkout and new system installs.

This advanced system also features an automatic test mode to calibrate accelerometers without user interaction. Simply choose your sensor type and AT-2040 will sweep through the accelerometer frequency range while plotting its deviation on the color LCD screen. At the completion of your test the results will be saved in PDF format and can be exported to USB devices at any time.



- (1) Dual USB port for data transfer or accessory power.
- (2) 100-240v plug receptacle with built in power supply.
- (3) Proximity probe simulation plugin capable of providing a test signal between 0 and -24 volts.
- (4) 4-20Ma simulation plugin capable of providing a test signal between 4 and 20 Milliamps.
- (5) Input for sensitivity test of 4-20ma transducers and vibration transmitters.
 +24v power supply provided by connector.
- (6) Proximity probe driver input for radial and axial measurement.
 -24v provided by connector.
- (7) Refrence adapter and mounting location for test transducers.
- (8) Color touch screen. 4.3" TFT LCD Display, 480x272 Resolution.
- ▲ (9) BNC Sensor input sensor for sensitivity test. Supports Charge, IEPE, Proximity Probes and Velocity sensors.
- ▲ (10) Custom Sensor In/Out See rear view pinout diagram
- (11)BNC Sensor Simulator Output; Simulates a variety of transducer types using adjustable voltage and supply currents. Includes : Charge, IEPE , Variable voltage supply.
- (12) Adjustable Amplitude button. Also serves as back button when pressed.
- 🔺 (13) Frequency adjustment button. Also serves as select button when pressed.



GENERAL

READOUT ACCURACY

INPUT/OUTPUT

POWER

PHYSICAL

	SPECIFICATIONS FOR - A	AT 2040		
Frequency Range (operating	, 100 gram payload)	7	7 Hz to 10 kHz	420 to 600000 CP
Maximum Amplitude (100 H	z, with no payload)	1	20 g pk (196 m/s2 15 in/s pk (380 m 50 mils p-p (1270	m/s pk)
Maximum Payload		7	750 grams	
Sensor Test Method		A	utomatic Sweep	or Manual Operatio
Sensor select		E	Built in transducer	library
Calibration Sheets		E		n to memory h drive in PDF form user input required
Acceleration (30 Hz to 2 kHz)	F	±3%	
Acceleration (7 Hz to 10 kHz)	F	⊧1 dB	
Velocity (10 Hz to 1000 Hz)		F	⊧ 3%	
Displacement (30 Hz to 150	Hz)	F	±3%	
Amplitude Linearity (100 gra	m payload, 100 Hz)	<	< 1% up to 10 g p	ok
Waveform Distortion (100 gr	am payload, 30 Hz to 2 kHz)	<	< 5% THD (typica	l) up to 5 g pk
Acceleration		g	j pk, g RMS, m/s	pk, m/s RMS
Velocity		n	nm/s pk, mm/s R	MS, in/s pk, in/s RI
Displacement (peak to peak)		n	nils p-p, µm p-p	
Frequency		F	Iz, CPM	
Test Sensor Inputs		4	Charge, IEPE, Velo I-20ma transduce I-20ma vibration	r,
Bias Measurement		Y	⁄es	
Built in Excitation current an	d supply voltages for transduc	-	EPE Current Sour 24 Proximity driv 24 4-20ma supp /ariable voltage su	er source ly
External Source In (Max)			V AC RMS	
Transducer Simulation		4	Charge, IEPE bias I-20ma loop simu Proximity probe dr	
Monitor Reference Out			L0 mv/G (nominal Internal reference	2
Internal Battery (sealed solid	d gel lead acid)	1	2 V DC,5 amp h	ours
AC Power (for recharging bat	tery)	1	00-240 V, 50-60	Hz
	100 gram payload, 100 Hz 1 g 100 gram payload, 100 Hz 10		l0 hours L hours	
Sensor Connectors		E	BNC, DIN, Termina	al strip
Display		4	1.3 inch LED	
Controls		2	2 dials with touch	screen
Dimensions (H x W x D)		8.5 in x 12	in x 10 in (22 cm	n x 30.5 cm x 28 c
Weight		1	.5.2 lb (6.9 kg)	
Sensor Mounting Platform Th	iread Size	1	./4-28	
Operating Temperature		C)°C-50°C (32°F-1	22°F)
Angency Requirements and	Certifications	NIST Tracal	ole, Certified NVL	AP Labratory Teste
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United States of America