

Vibration Tester

Amittari Vibration Tester, is used for periodic measurements, to detect out-of-balance, misalignment and other mechanical faults in rotating machines. It is specially designed for easy on site vibration measurement of all rotating machinery for quality control, commissioning, and predictive maintenance purposes.

Pen Vibration Tester AV-160P

The Amittari Pen Vibration Tester AV-160P, in accordance with ISO 2954, applies individual high quality accelerometer for accurate and repeatable measurements.

- Can display the parameters of Displacement, Velocity and Acceleration simultaneously
- Wide frequency range (10Hz.To 10kHz.) in acceleration mode



AV-160P

Vibration Tester AV-160A

The Amittari Vibration Tester AV-160A, in accordance with ISO 2954, applies individual high quality accelerometer for accurate and repeatable measurements.

- Wide frequency range (10Hz.To 10kHz.) in acceleration mode



AV-160A

Vibration Tester AV-160B

The Amittari Vibration Tester AV-160B, in accordance with ISO 2954, applies individual high quality accelerometer for accurate and repeatable measurements.

- Can display the parameters of Displacement, Velocity and Acceleration simultaneously
- Wide frequency range (10Hz.To 10kHz.) in acceleration mode
- Automatic power shut off to conserve power



AV-160B

Vibration Tachometer AV-160T

The Amittari Vibration Tachometer AV-160T, in accordance with ISO 2954, applies individual high quality accelerometer for accurate and repeatable measurements.

- Multifunctional, one instrument combines Photo Tachometer & Contact Tachometer. Be able to measure rotation rate RPM(r/min) & Frequency Hz
- Wide frequency range (10Hz.To 10kHz.) in acceleration mode



AV-160T

Features

Model	AV-160P	AV-160A	AV-160B	AV-160T
Display the parameters of Displacement, Velocity and Acceleration simultaneously	•	-	•	-
Metric/Imperial Conversion	•	•	•	•
Max. Value Hold Function	•	•	•	•
Manual/Auto Power Off	-	-	•	-
Headphone Available	-	•	•	•
Revs & Frequency Testing	-	-	-	•
Backlight Display	•	•	•	•
Buzzer Sound Reminder	•	•	•	•
Low Battery Indicator	•	•	•	•
Computer Connection	•	•	•	•

Specifications

Model	AV-160P	AV-160A	AV-160B	AV-160T
Sensor	Piezoelectric Sensor	Piezoelectric Sensor		Piezoelectric Sensor
	-	-		Contact Tachometer Sensor
	-	-		Photo Tachometer Sensor
Range	Acceleration	0.1~300.0m/s ² Equivalent Peak; 985ft/s ²	0.1~400.0m/s ² Equivalent Peak; 0.3~1312ft/s ² ; 0.0~40g	0.1~400.0m/s ² Equivalent Peak; 0.3~1312ft/s ² ; 0.0~40g
	Velocity	0.01~300.0mm/s True RMS; 0.000~13.00inch/s	0.01~400.0mm/s True RMS; 0.004~16.00inch/s	0.01~400.0mm/s True RMS; 0.004~16.00inch/s
	Displacement	0.001~3.000mm Equivalent Peak-Peak; 0.04~120.0mil	0.001~4.000mm Equivalent Peak-Peak; 0.04~160.0mil,	0.001~4.000mm Equivalent Peak-Peak; 0.04~160.0mil,
Frequency Range	Acceleration	10Hz~10kHz	10Hz~10kHz	10Hz~10kHz
	Velocity	10Hz~1kHz	10Hz~1kHz	10Hz~1kHz
	Displacement	10Hz~1kHz	10Hz~1kHz	10Hz~1kHz
Rotation Rate Range	-	-		60~99,990RPM(r/min)
Frequency	-	1~20,000Hz		1~20,000Hz
Accuracy	±10% of reading + 2 digits	±5% of reading + 2 digits		±5% of reading + 2 digits
Operation Conditions	Temperature: 0~50°C (32~122°F) Humidity: <90%RH			
Power Supply	Lithium Battery	4 x 1.5V AAA Um-4 Battery		4 x 1.5V AAA Um-4 Battery
Size (Main Unit)	202 x 43 x 23mm (8.0 x 1.7 x 0.9")	140 x 70 x 31mm (5.5 x 2.8 x 1.2")		140 x 70 x 31mm (5.5 x 2.8 x 1.2")
Weight (Main Unit)	130g (4.59oz) (with battery)	130g (4.59oz) (without batteries)		130g (4.59oz) (without batteries)
Standard Accessories	Main Unit			
	-	Piezoelectric Sensor		Piezoelectric Sensor
	-	-		Contact Tachometer Sensor
	-	-		Photo Tachometer Sensor
	-	-		Reflective Tape Marks
	-	Powerful rare earth magnet		Powerful rare earth magnet
	-	Stinger probe (Cone)		Stinger probe (Cone)
	-	Stinger probe (Ball)		Stinger probe (Ball)
	-	Carrying Case		
-	Operation Manual			
Optional Accessories	-	Headphones		Headphones
	USB Cable & Software (See Page 4)			
	Bluetooth Adapter & Software (See Page 4)			

3–Axis Vibration Tester

AV-160D

The Amittari 3-Axis Vibration Tester AV-160D, in accordance with ISO 2954, applies individual high quality accelerometer for accurate and repeatable measurements.

- 3 same parameters in one display for 3 dimensional measurement or 1 dimensional measurement specified, showing 3 different parameters of velocity, acceleration and displacement in 1 display
- Wide frequency range (10Hz.To 10kHz.) in acceleration mode
- Automatic power shut off to conserve power



AV-160D

2–Channel Vibration Tester

AV-160D-2

The Amittari 2-Channel Vibration Tester AV-160D-2, in accordance with ISO 2954, applies individual high quality transducer for accurate and repeatable measurements.

- 2 same parameters in one display for 2 position measurement or 1 position measurement specified, showing 3 different parameters of velocity, acceleration and displacement in 1 display.
- Wide frequency range (10Hz.To 10kHz.) in acceleration mode
- Automatic power shut off to conserve power



AV-160D-2

3–Channel Vibration Tester

AV-160D-3

The Amittari 3-Channel Vibration Tester AV-160D-2, in accordance with ISO 2954, applies individual high quality transducer for accurate and repeatable measurements.

- 3 same parameters in one display for 3 position measurement or 1 position measurement specified, showing 3 different parameters of velocity, acceleration and displacement in 1 display.
- Wide frequency range (10Hz.To 10kHz.) in acceleration mode
- Automatic power shut off to conserve power



AV-160D-3

Features

Model	AV-160D	AV-160D-2	AV-160D-3
Display the parameters of Displacement, Velocity and Acceleration simultaneously	•	•	•
Metric/Imperial Conversion	•	•	•
Max. Value Hold Function	•	•	•
Manual/Auto Power Off	•	•	•
Headphone Available	•	•	•
Backlight Display	•	•	•
Buzzer Sound Reminder	•	•	•
Low Battery Indicator	•	•	•
Computer Connection	•	•	•

Specifications

Model	AV-160D		AV-160D-2	AV-160D-3
Sensor	3-Axis Piezoelectric Accelerometer		2 Piezoelectric Transducers	3 Piezoelectric Transducers
Range	Acceleration	0.1~400.0m/s ² Equivalent Peak; 0.3~1312ft/s ² ; 0.0~40g		
	Velocity	0.01~400.0mm/s True RMS; 0.004~16.00inch/s		
	Displacement	0.001~4.000mm Equivalent Peak-Peak; 0.04~160.0mil		
Frequency Range	Acceleration	10Hz~10kHz		
	Velocity	10Hz~1kHz		
	Displacement	10Hz~1kHz		
Accuracy	±5% of reading + 2 digits			
Operation Conditions	Temperature: 0~50°C (32~122°F)			
	Humidity: <90%RH			
Power Supply	4 x 1.5V AAA Um-4 Battery			
Size (Main Unit)	140 x 70 x 31mm (5.5 x 2.8 x 1.2")			
Weight (Main Unit)	130g (4.59oz) (without batteries)			
Standard Accessories	Main Unit			
	3-Axis Piezoelectric Accelerometer	2 Piezoelectric Transducers		3 Piezoelectric Transducers
	Powerful rare earth magnet			
	Stinger probe (Cone)			
	Stinger probe (Ball)			
	Carrying Case			
	Operation Manual			
Optional Accessories	Headphones			
	USB Cable & Software (See Page 4)			
	Bluetooth Adapter & Software (See Page 4)			

Data Statistics Software

This powerful software provides the user with the means to analyze their test results. Through continuous inspection data statistic will help you to reduce re-work and scrap levels - increasing your profits and quality. With the computers and printers, the following functions can be realized:

- Data Management (Excel file output)
- Charting
- Printing



Data Transmission Methods

There are two ways to transmission measurement data:

- USB Data Cable wired output
- Bluetooth Adapter wireless output

By these two ways above, data transmission from the gauge to computer can be realized.

Among them, there are two optional Bluetooth adapters: 10 meter Bluetooth adapter and 100 meter Bluetooth adapter.

