

Comparison of Features Table for AT-2030/AT-2035/AT-2040



AT-2030



AT-2035



AT-2040

General	AT-2030	AT-2035	AT-2040
Frequency Range (operating, 100 gram payload)	7 Hz to 10,000 Hz 420 to 600000 CPM	7 Hz to 10,000 Hz	7 Hz to 10,000 Hz 420 to 600000 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 p-p (1270 μm p-p)	20 g pk (196 m/s ² pk) 15 in/s pk (380 mm/s pk) 50 mils p-p (1270 μm p-p)	20 g pk (196 m/s ² pk) 15 in/s pk (380 mm/s pk) 50 mils p-p (1270 μm p-p)
Maximum Payload	800 grams	800 grams	800 grams
Sensor Test Method	N/A	Automatic Sweep or Manual Operation	Automatic Sweep or Manual Operation
Sensor Select	N/A	Built in transducer library	Built in transducer library
Calibration Sheets	N/A	Automatic Creation to memory Export to USB flash drive in PDF format Certificate includes test point with graph	Automatic Creation to memory Export to USB flash drive in PDF format Certificate includes test point with graph
Accuracy			
Acceleration (30 Hz to 2 kHz)	±3%	±3%	±3%
Acceleration (7 Hz to 10 kHz)	±1 dB	±1 dB	±1 dB
Velocity (10 Hz to 1000 Hz)	±3%	±3%	±3%
Displacement (30 Hz to 150 Hz)	±3%	±3%	±3%
Amplitude Linearity (100 gram payload, 100 Hz)	< 1% up to 10 g pk	< 1% up to 10 g pk	< 1% up to 10 g pk
Waveform Distortion (100 gram payload, 30 Hz to 2 kHz)	< 5% THD (typical) up to 5 g pk	< 5% THD (typical) up to 5 g pk	< 5% THD (typical) up to 5 g pk
Readout			
Acceleration	g, m/s ² (peak and RMS)	g, m/s ² (peak and RMS)	g pk, g RMS, m/s ² RMS
Velocity (10 Hz to 1000 Hz)	in/s, mm/s, (peak and RMS)	in/s, mm/s, (peak and RMS)	mm/s pk, mm/s RMS, in/s pk, in/s RMS
Displacement (peak to peak)	mils, μm (p-p)	mils, μm (p-p)	mils p-p, μm p-p
Frequency	Hz, CPM	Hz, CPM	Hz, CPM
Input / Output			
Test Sensor Inputs	None	Charge, IEPE, Velocity, Proximity	Charge, IEPE, Velocity, Proximity 4-20ma transducer 4-20ma vibration transmitters
Bias Measurement	N/A	Yes	Yes
Built in Excitation current and supply voltages for transducers	N/A	IEPE Current Source Built in Charge Amplifier	IEPE Current Source Built in Charge Amplifier -24 Proximity driver source +24 4-20ma supply Variable voltage supply
External Source In (Max)	N/A		1V AC RMS
Transducer Simulation	N/A	N/A	Charge, IEPE bias and signal 4-20ma loop simulator Proximity probe driver (axial and radial)
Monitor Reference Out	N/A	10 mV/g (nominal), buffered internal reference	10 mV/g (nominal), buffered internal reference
Power			
Internal Battery (sealed solid gel lead acid)	12 V DC, 5 amp hours	12 V DC, 5 amp hours	12 V DC, 5 amp hours
AC Power (for recharging battery)	100-240V, internal, standard plug	100-240V, internal, standard plug	100-240V, internal, standard plug
Operating Battery Life	10 hours (100 gram payload, 100 Hz 1 g pk) 1 hours (100 gram payload, 100 Hz 1 g pk)	10 hours (100 gram payload, 100 Hz 1 g pk) 1 hours (100 gram payload, 100 Hz 1 g pk)	10 hours (100 gram payload, 100 Hz 1 g pk) 1 hours (100 gram payload, 100 Hz 1 g pk)
Accessory Power	USB 500mA	USB 500mA	USB 500mA
Physical			
Sensor Connectors		BNC	BNC, DIN, Terminal strip
Display	4.3 inch LED	4.3 inch LED	4.3 inch LED
Controls	Dual knobs and touch screen	Dual knobs and touch screen	Dual knobs and touch screen
Dimensions (H x W x D)	8.5 in x 12 in x 10 in (22 cm x 30.5 cm x 28 cm)	8.5 in x 12 in x 10 in (22 cm x 30.5 cm x 28 cm)	8.5 in x 12 in x 10 in (22 cm x 30.5 cm x 28 cm)
Weight	15.2 lb (6.9 kg)	15.2 lb (6.9 kg)	15.2 lb (6.9 kg)
Sensor Mounting Platform Thread Size	1/4-28	1/4-28	1/4-28
Operating Temperature	0°C-50°C (32°F-122°F)	0°C-50°C (32°F-122°F)	0°C-50°C (32°F-122°F)