

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



**AT-2030**



**AT-2035**



**AT-2040**

	AT-2030	AT-2035	AT-2040	
<b>General</b>	<b>Frequency Range (operating, 100 gram payload)</b>	7 Hz to 10 Hz 420 to 600000 CPM	7 Hz to 10 Hz 420 to 600000 CPM	
	<b>Maximum Amplitude (100 Hz, with no payload)</b>	20 g pk (196 m/s <sup>2</sup> pk) 15 in/s pk (380 mm/s pk) 50 mils p-p (1270 μm p-p)	20 g pk (196 m/s <sup>2</sup> pk) 15 in/s pk (380 mm/s pk) 50 mils p-p (1270 μm p-p)	20 g pk (196 m/s <sup>2</sup> pk) 15 in/s pk (380 mm/s pk) 50 mils p-p (1270 μm p-p)
	<b>Maximum Payload</b>	750 grams	750 grams	750 grams
	<b>Sensor Test Method</b>	N/A	Automatic Sweep or Manual Operation	Automatic Sweep or Manual Operation
	<b>Sensor Select</b>	N/A	Built in transducer library	Built in transducer library
	<b>Calibration Sheets</b>	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
<b>Accuracy</b>	<b>Acceleration (30 Hz to 2 kHz)</b>	±3%	±3%	±3%
	<b>Acceleration (7 Hz to 10 kHz)</b>	±1 dB	±1 dB	±1 dB
	<b>Velocity (10 Hz to 1000 Hz)</b>	±3%	±3%	±3%
	<b>Displacement (30 Hz to 150 Hz)</b>	±3%	±3%	±3%
	<b>Amplitude Linearity (100 gram payload, 100 Hz)</b>	< 1% up to 10 g pk	< 1% up to 10 g pk	< 1% up to 10 g pk
	<b>Waveform Distortion (100 gram payload, 30 Hz to 2 kHz)</b>	< 5% THD (typical) up to 5 g pk	< 5% THD (typical) up to 5 g pk	< 5% THD (typical) up to 5 g pk
<b>Readout</b>	<b>Acceleration</b>	g, m/s <sup>2</sup> (peak and RMS)	g, m/s <sup>2</sup> (peak and RMS)	g pk, g RMS, m/s <sup>2</sup> RMS
	<b>Velocity (10 Hz to 1000 Hz)</b>	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
	<b>Displacement (peak to peak)</b>	mils, μm (p-p)	mils, μm (p-p)	mils p-p, μm p-p
	<b>Frequency</b>	Hz, CPM	Hz, CPM	Hz, CPM
<b>Input / Output</b>	<b>Test Sensor Inputs</b>	None	Charge, IEPE, Velocity, Proximity	Charge, IEPE, Velocity, Proximity 4-20ma transducer 4-20ma vibration transmitters
	<b>Bias Measurement</b>	N/A	Yes	Yes
	<b>Built in Excitation current and supply voltages for transducers</b>	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
	<b>External Source In (Max)</b>	N/A		1V AC RMS
	<b>Transducer Simulation</b>	N/A	N/A	Charge, IEPE bias and signal 4-20ma loop simulator Proximity probe driver (axial and radial)
	<b>Monitor Reference Out</b>	N/A	10 mV/g (nominal), buffered internal reference	10 mV/g (nominal), buffered internal reference
<b>Power</b>	<b>Internal Battery (sealed solid gel lead acid)</b>	12 V DC, 5 amp hours	12 V DC, 5 amp hours	12 V DC, 5 amp hours
	<b>AC Power (for recharging battery)</b>	100-240V, internal, standard plug	100-240V, internal, standard plug	100-240V, internal, standard plug
	<b>Operating Battery Life</b>	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)
	<b>Accessory Power</b>	USB 500mA	USB 500mA	USB 500mA
<b>Physical</b>	<b>Sensor Connectors</b>		BNC	BNC, DIN, Terminal strip
	<b>Display</b>	4.3 inch LED	4.3 inch LED	4.3 inch LED
	<b>Controls</b>	Dual knobs and touch screen	Dual knobs and touch screen	Dual knobs and touch screen
	<b>Dimensions (H x W x D)</b>	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)
	<b>Weight</b>	15.2 lb (6.9 kg)	15.2 lb (6.9 kg)	15.2 lb (6.9 kg)
	<b>Sensor Mounting Platform Thread Size</b>	1/4-28	1/4-28	1/4-28
	<b>Operating Temperature</b>	0°C-50°C (32°F-122°F)	0°C-50°C (32°F-122°F)	0°C-50°C (32°F-122°F)