

PRODUCT SELECTION GUIDE

Piezoelectric Accelerometers



MODEL	Sensitivity mV/g	Weight grams	Linear Range g	Shock Limit g	Frequency Response Hz (+/- 5%)	Min. Temp. °C (°F)	Max. Temp. °C (°F)	Electrical Isolation	Hermetic Seal	Mounting Method	V O L T A G E M O D E A C C E L E R O M E T E R S
3023A*	10	3	500	5000	2-10000	-51 (-60)	121 (250)	NO	YES	ADHESIVE	
3023A1*	10	4	500	5000	2-10000	-51 (-60)	121 (250)	NO	YES	STUD	
3030B4	10	6.8	500	3000	1-10000	-51 (-60)	121 (250)	NO	YES	STUD	
3030B5	10	6.8	500	3000	5-10000	-51 (-60)	121 (250)	NO	YES	STUD	
3032A	10	1.5	500	1500	1-10000	-51 (-60)	121 (250)	NO	NO	ADHESIVE	
3032A1	5	1.5	1000	1500	1-10000	-51 (-60)	121 (250)	NO	NO	ADHESIVE	
3033B2*	10	11	500	1000	1-8000	-51 (-60)	121 (250)	YES	YES	SCREW	
3035B	100	2.4	50	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	STUD	
3035BG	100	2.3	50	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	ADHESIVE	
3035B1	10	2.4	500	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	STUD	
3035B1G	10	2.3	500	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	ADHESIVE	
3035B2	50	2.5	100	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	STUD	
3035B2G	50	2.5	100	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	ADHESIVE	
3041A2	100	10	50	5000	1-3000	-51 (-60)	121 (250)	YES	YES	STUD	
3041A4	500	10	10	5000	1-3000	-51 (-60)	121 (250)	YES	YES	STUD	
3053B*	10	6.0	500	5000	2-5000	-51 (-60)	121 (250)	YES	YES	ADHESIVE	
3053B1*	5	6.0	1000	5000	2-5000	-51 (-60)	121 (250)	YES	YES	ADHESIVE	
3053B2*	10	7.5	500	5000	2-5000	-51 (-60)	121 (250)	YES	YES	STUD	
3055A1	10	10	500	3000	1-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3055A2	100	10	50	2000	1-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3055A3	500	10	10	1000	1-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3056A1	10	10	500	3000	1-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3056A2	100	10	50	2000	1-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3056A3	500	10	10	1000	1-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3062A	10	37	500	5000	.48-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3062A1	25	40	200	3000	.48-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3093B*	100	10	50	500	2-5000	-51 (-60)	121 (250)	YES	YES	ADHESIVE	
3093B1*	100	13.5	50	500	2-5000	-51 (-60)	121 (250)	YES	YES	STUD	
3100D24	1000	48	5	200	2-1000	-51 (-60)	121 (250)	YES	YES	STUD	
3143D*	10	14	500	1500	.5-3000	-51 (-60)	121 (250)	YES	YES	SCREW	
3143D1*	100	14	50	1500	.5-3000	-51 (-60)	121 (250)	YES	YES	SCREW	
3145A	100	2.3	50	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	STUD	
3145AG	100	2.1	50	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	ADHESIVE	
3145A1	10	2.3	500	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	STUD	
3145A1G	10	2.3	500	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	ADHESIVE	
3145A2	5	2.3	500	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	STUD	
3145A2G	5	2.1	500	3000	.5-10000	-51 (-60)	121 (250)	NO	YES	STUD	
3168F	10	23	500	3000	1-10000	-51 (-60)	121 (250)	YES	YES	SCREW	
3200B	0.05	6	70000	120000	1-20000	-51 (-60)	121 (250)	YES	YES	STUD	
3200B2	0.1	6	50000	120000	1-20000	-51 (-60)	121 (250)	YES	YES	STUD	
3200B3	0.25	6	20000	100000	1-20000	-51 (-60)	121 (250)	YES	YES	STUD	
3200B4	0.5	6	10000	50000	1-20000	-51 (-60)	121 (250)	YES	YES	STUD	
3200B5	1	6	5000	50000	1-20000	-51 (-60)	121 (250)	YES	YES	STUD	
3200B6	2	6	2500	50000	1-15000	-51 (-60)	121 (250)	YES	YES	STUD	
3220B	10	3.5	500	2000	1-5000	-51 (-60)	121 (250)	YES	YES	SCREW	
3220M6	10	5.5	500	2000	0.3-5000	-51 (-60)	121 (250)	YES	YES	ADHESIVE	
3225F	10	0.6	500	5000	1.6-10000	-51 (-60)	121 (250)	NO	NO	ADHESIVE	
3225F1	10	0.6	500	5000	1.6-10000	-51 (-60)	121 (250)	NO	NO	ADHESIVE	
3233A*	1000	28	5	5000	.4-3000	-51 (-60)	121 (250)	YES	YES	SCREW	
5313A*	100	454	50	1500	.5-3000	-51 (-60)	121 (250)	YES	YES	N/A	

* triaxial accelerometer

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PRODUCT SELECTION GUIDE

Signal Conditioners & Charge Amplifiers



MODEL	Channels	Size (H X W X D)	Connectors (Input / Output)	Power Source	Gain / Description	S I G N A L C O N D I T I O N E R S
4025A	1	2.35L X .56D	BNC Jack / BNC Plug	-	TEDS Adapter	
4102C	1	2.8 X 4 X 4	BNC Jack	9V Batteries (2 Each)	Unity	
4103C	3	3.3 X 5.2 X 3.4	BNC Jack	9V Batteries (2 Each)	Unity	
4105C	1	2.8 X 4 X 4	BNC Jack	9V Batteries (2 Each)	X1, X10, X100	
4110C	1	5.5 X 1.6 X 8.0	BNC Jack	50-60 Hz, Line	Unity	
4112B	1	5.5 X 1.6 X 8.0	BNC Jack	50-60 Hz, Line	X1, X10, X100	
4113	3	5.5 X 1.6 X 8.0	4-Pin / BNC Jack	50-60 Hz, Line	Unity	
4114B1	4	5.5 X 1.6 X 8.0	BNC Jack	50-60 Hz, Line	Unity	
4115B	1	5.5 X 1.6 X 8.0	BNC Jack	50-60 Hz, Line	Unity	
4116	16	1.75 X 19.0 X 12.5	BNC Jack	50-60 Hz, Line	Unity	
4120	6	1.75 X 19.0 X 12.5	BNC Jack	50-60 Hz, Line	Unity	
4121	12	1.75 X 19.0 X 12.5	BNC Jack	50-60 Hz, Line	Unity	
4122B	6	1.75 X 19.0 X 12.5	BNC Jack	50-60 Hz, Line	X1, X10, X100	
4123B	12	1.75 X 19.0 X 12.5	BNC Jack	50-60 Hz, Line	X1, X10, X100	
4129	6	1.75 X 19.0 X 12.5	BNC Jack	50-60 Hz, Line	True RMS to DC	
4130	12	1.75 X 19.0 X 12.5	BNC Jack	50-60 Hz, Line	True RMS to DC	
4151HL	1	5.41 X 3.20 X 7.87	BNC Jack	50-60 Hz, Line	True RMS to DC	
4177	1	7 X 4.5 X 1.5	BNC Jack	Battery (7.2V NI CAD)	X1, X10, X100	
4705A1*	1	.50 (D) X 3.15 (L)	BNC Jack	-	50 mV/pC	
4705A2*	1	.50 (D) X 3.15 (L)	BNC Jack	-	10 mV/pC	
4705A3*	1	.50 (D) X 3.15 (L)	BNC Jack	-	1 mV/pC	
4705A4*	1	.50 (D) X 3.15 (L)	BNC Jack	-	0.1 mV/pC	
4751B1	1	.50 (D) X 2.0 (L)	10-32 Jack	-	50 mV/pC	
4751B2	1	.50 (D) X 2.0 (L)	10-32 Jack	-	10 mV/pC	
4751B3	1	.50 (D) X 2.0 (L)	10-32 Jack	-	1 mV/pC	
4751B4	1	.50 (D) X 2.0 (L)	10-32 Jack	-	0.1 mV/pC	

* contains low pass filter, -3dB @ 2kHz

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MODEL	Sensitivity mV/g	Weight grams	Linear Range g	Shock Limit g	Frequency Response Hz (+/-10%)	Min. Temp. °C (°F)	Max. Temp. °C (°F)	Electrical Isolation	Hermetic Seal	Mounting Method	INDUSTRIAL ACCELEROMETERS
3019A	10	8	500	3000	1-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3058A	100	38	50	5000	.5-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3059A	100	72	50	3000	.5-8000	-51 (-60)	121 (250)	YES	YES	STUD	
3019A1	10	8	500	3000	1-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3063B*	100	245	50	2000	0.1-5000	-51 (-60)	121 (250)	YES	YES	SCREW	
3073A*	100	105	50	2000	0.3-5000	-51 (-60)	121 (250)	YES	YES	SCREW	
3148D	100	66	50	3000	1-5000	-51 (-60)	121 (250)	YES	YES	STUD	
3166B	100	225	50	3000	0.3-10000	-51 (-60)	121 (250)	YES	YES	SCREW	
3166B1	500	225	10	3000	0.3-10000	-51 (-60)	121 (250)	YES	YES	SCREW	
3176B	100	44	50	3000	0.3-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3176B1	100	44	50	3000	0.3-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3184E	100	107	50	3000	0.3-8000	-51 (-60)	121 (250)	YES	YES	STUD	
3185D	100	55	50	3000	0.3-10000	-51 (-60)	121 (250)	YES	YES	STUD	
3187D	500	108	10	3000	0.3-1000	-51 (-60)	121 (250)	YES	YES	STUD	
3191A	5000	775	1	100	0.1-1000	-51 (-60)	121 (250)	YES	YES	STUD	
3191A1	10000	775	0.5	100	0.1-1000	-51 (-60)	121 (250)	YES	YES	STUD	
3192A	1000	190	5	100	.5-1000	-51 (-60)	121 (250)	YES	YES	STUD	
3202A	100	160	50	3000	0.5-5000	-51 (-60)	121 (250)	YES	YES	STUD	
3202A1	500	160	10	1500	0.5-5000	-51 (-60)	121 (250)	YES	YES	STUD	
3202A2	100	160	50	3000	0.5-5000	-51 (-60)	121 (250)	YES	YES	STUD	
3202A3	500	160	10	1500	0.5-5000	-51 (-60)	121 (250)	YES	YES	STUD	

* triaxial accelerometer

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Impulse Hammers



MODEL	Sensitivity mV/LbF	Head Weight grams	Full Scale Range LbF	Maximum Force LbF	Overall Length inches	Electrical Connector	I M P U L S E H A M M E R S
5800B2	100	100	50	1000	8.3	BNC jack	
5800B3	50	100	100	1000	8.3	BNC jack	
5800B4	10	100	500	1000	8.3	BNC jack	
5800B5	5	100	1000	2000	8.3	BNC jack	
5800SL	100	2	50	75	4.5	BNC jack	
5802A	1	3 Lbs	5000	8000	15	BNC jack	
5803A	1	12 Lbs	5000	8000	35	BNC jack	
5805A	1	1 Lb	5000	8000	11.5	BNC jack	
5850B	1, 10, 100	150	50, 500, 5000	8000, 6000, 1000	8.5	BNC jack	

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PRODUCT SELECTION GUIDE

Piezoelectric Pressure Sensors



MODEL	Sensitivity mV/psi	Weight grams	Full Scale Range psi	Maximum Pressure psi	Min. Temp. °C (°F)	Max. Temp. °C (°F)	Electrical Connector	P R E S S U R E S E N S O R S
2005V	100	43	50	100	-73 (-100)	121 (250)	top TNC	
2011V	5	13	1000	2000	-51 (-60)	121 (250)	top 10-32	
2013V	2000	32	2.5	10	-51 (-60)	121 (250)	top 10-32	
2180C*	-750 pC/psi	157	10	600	-51 (-60)	315 (600)	top TNC	
2200C1*	-1 pC/psi	7	100	10000	-240 (-400)	260 (500)	top 10-32	
2200C2*	-1 pC/psi	7	500	10000	-240 (-400)	260 (500)	top 10-32	
2200C4*	-1 pC/psi	7	1000	10000	-240 (-400)	260 (500)	top 10-32	
2200C5*	-1 pC/psi	7	5000	10000	-240 (-400)	260 (500)	top 10-32	
2200C6*	-1 pC/psi	7	10000	15000	-240 (-400)	260 (500)	top 10-32	
2200V1	50	6	100	2000	-73 (-100)	121 (250)	top 10-32	
2300C1*	-0.35 pC/psi	6.5	100	10000	-240 (-400)	260 (500)	top 10-32	
2300C2*	-0.35 pC/psi	6.5	500	10000	-240 (-400)	260 (500)	top 10-32	
2300C3*	-0.35 pC/psi	6.5	1000	15000	-240 (-400)	260 (500)	top 10-32	
2300C4*	-0.35 pC/psi	6.5	3000	15000	-240 (-400)	260 (500)	top 10-32	
2300C7*	-0.35 pC/psi	6.5	15000	15000	-240 (-400)	260 (500)	top 10-32	
2300V1	20	6	250	5000	-51 (-60)	121 (250)	top 10-32	
2300V3	10	6	500	10000	-51 (-60)	121 (250)	top 10-32	
2300V4	5	6	1000	10000	-51 (-60)	121 (250)	top 10-32	
2300V5	1	6	5000	15000	-51 (-60)	121 (250)	top 10-32	
2300V6	0.05	6	10000	15000	-51 (-60)	121 (250)	top 10-32	

* charge mode pressure sensor

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PRODUCT SELECTION GUIDE

Piezoelectric Force Sensors



MODEL	Sensitivity mV/LbF	Weight grams	Compression Range LbF	Tension Range LbF	Maximum Compression LbF	Maximum Tension LbF	Electrical Connector	Mounting Method	FORCE SENSORS
1050C*	-18 pC/LbF	34	5000	500	15000	500	top 10-32	5/16-24 stud	
1050V1	500	34	10	10	200	200	top 10-32	5/16-24 stud	
1050V2	100	34	50	50	1000	1000	top 10-32	5/16-24 stud	
1050V3	50	34	100	100	2000	1000	top 10-32	5/16-24 stud	
1050V4	10	34	500	500	10000	1000	top 10-32	5/16-24 stud	
1050V5	5	34	1000	500	15000	1000	top 10-32	5/16-24 stud	
1050V6	1	34	5000	500	15000	1000	top 10-32	5/16-24 stud	
1051C*	-18 pC/LbF	34	5000	500	15000	500	side 10-32	1/4-28 stud	
1051V1	500	28	10	10	200	200	side 10-32	1/4-28 stud	
1051V2	100	28	50	50	1000	500	side 10-32	1/4-28 stud	
1051V3	50	28	100	100	2000	500	side 10-32	1/4-28 stud	
1051V4	10	28	500	500	10000	500	side 10-32	1/4-28 stud	
1051V5	5	28	1000	500	15000	500	side 10-32	1/4-28 stud	
1051V6	1	28	5000	500	15000	500	side 10-32	1/4-28 stud	
1060C*	-9 pC/LbF	459	25000	1000	60000	1000	top 10-32	11/16-12 stud	
1060V1	10	460	500	500	10000	1000	top 10-32	11/16-12 stud	
1060V2	5	460	1000	1000	20000	1000	top 10-32	11/16-12 stud	
1060V3	1	460	5000	1000	30000	1000	top 10-32	11/16-12 stud	
1060V4	0.5	460	10000	1000	40000	1000	top 10-32	11/16-12 stud	
1060V5	0.2	460	25000	1000	50000	1000	top 10-32	11/16-12 stud	
1060V6	0.1	460	50000	1000	60000	1000	top 10-32	11/16-12 stud	
1061C*	-9 pC/LbF	459	25000	1000	60000	1000	side 10-32	3/8-16 stud	
1061V1	10	420	500	500	10000	500	side 10-32	3/8-16 stud	
1061V2	5	420	1000	1000	20000	1000	side 10-32	3/8-16 stud	
1061V3	1	420	5000	1000	30000	1000	side 10-32	3/8-16 stud	
1061V4	0.5	420	10000	1000	40000	1000	side 10-32	3/8-16 stud	
1061V5	0.2	420	25000	1000	50000	1000	side 10-32	3/8-16 stud	
1061V6	0.1	420	50000	1000	60000	1000	side 10-32	3/8-16 stud	
1203V1	50	50	100	depends on preload	200	depends on preload	side 10-32	0.4 thru bolt	
1203V2	10	50	500	depends on preload	1000	depends on preload	side 10-32	0.4 thru bolt	
1203V3	5	50	1000	depends on preload	5000	depends on preload	side 10-32	0.4 thru bolt	
1203V4	1	50	5000	depends on preload	10000	depends on preload	side 10-32	0.4 thru bolt	
1203V5	0.5	50	10000	depends on preload	15000	depends on preload	side 10-32	0.4 thru bolt	

* charge mode force sensor

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3030C1	-0.4	6.8	500	3000	to 1000	-73 (-100)	260 (500)	NO	YES	STUD	
3035C	-2.5	2.5	500	3000	to 10000	-73 (-100)	204 (400)	NO	YES	STUD	
3039C*	+ 15	42	1500	2000	to 3000	-54 (-65)	204 (400)	NO	YES	STUD	
3049C	+ 5	2.6	500	2000	to 5000	-73 (-100)	177 (350)	NO	YES	ADHESIVE	
3055C	-15	6	500	3000	to 5000	-51 (-60)	191 (375)	YES	YES	STUD	
3056C	-15	6	500	3000	to 5000	-51 (-60)	191 (375)	YES	YES	STUD	
3122C2	-15	25	1000	2000	2-5000	-51 (-60)	260 (500)	NO	YES	STUD	
3152C2	-2	14	700	3000	to 5000	-51 (-60)	204 (400)	YES	YES	STUD	
3174C	-10	110	500	2000	to 5000	-51 (-60)	260 (500)	NO	YES	STUD	
3196C	-8	100	500	2000	to 2500	-51 (-60)	260 (500)	NO	YES	SCREW	
3197C	-4	100	500	2000	to 2500	-51 (-60)	260 (500)	YES	YES	SCREW	
3220C	-6	3.5	1000	2000	to 5000	-51 (-60)	204 (400)	NO	YES	ADHESIVE	
3225E	> -1.6	0.6	250	5000	to 10000	-51 (-60)	177 (350)	NO	NO	ADHESIVE	
3225E1	> -1.6	0.6	250	5000	to 10000	-51 (-60)	177 (350)	NO	NO	ADHESIVE	

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