

SENSOR SELECTION CHART

| Wilcoxon model | Sensitivity | Sensitivity tolerance | Frequency response, ± 3 dB | Resonance | Exit type / connector | Max temp | Mounting thread | psd noise @ 100 Hz | Acceleration range | Weight | Haz. area option |
|---|-------------|-----------------------|--------------------------------|-----------|-----------------------|--------------------|------------------|--------------------|--------------------|------------|------------------|
| | | | Hz | kHz | | $^{\circ}\text{C}$ | | /Hz | peak | grams | |
| High performance | | | | | | | | | | | |
| 780A | 100 mV/g | $\pm 5\%$ | 0.5 - 14k | 30 | top, R6 | 120 | 1/4-28 | 5 μg | 80 g | 62 | Y |
| 786A | 100 mV/g | $\pm 5\%$ | 0.5 - 14k | 30 | top, R6 | 120 | 1/4-28 | 5 μg | 80 g | 90 | Y |
| 786LF | 100 mV/g | $\pm 5\%$ | 0.1 - 13k | 30 | top, R6 | 120 | 1/4-28 | 3 μg | 50 g | 90 | |
| 787A | 100 mV/g | $\pm 5\%$ | 0.5 - 10k | 22 | side, R6 | 120 | 1/4-28 | 5 μg | 80 g | 145 | Y |
| General purpose | | | | | | | | | | | |
| 780B | 100 mV/g | $\pm 10\%$ | 0.5 - 14k | 30 | top, R6 | 120 | 1/4-28 | 5 μg | 80 g | 62 | |
| 780C | 100 mV/g | $\pm 15\%$ | 0.5 - 14k | 30 | top, R6 | 120 | 1/4-28 | 5 μg | 80 g | 62 | |
| 785A | 100 mV/g | $\pm 10\%$ | 1.0 - 12k | 30 | side, R6 | 120 | 1/4-28 | 6 μg | 80 g | 85 | |
| 786B-10 | 100 mV/g | $\pm 10\%$ | 0.5 - 14k | 30 | top, R6 | 120 | 1/4-28 | 5 μg | 80 g | 90 | |
| 787B | 100 mV/g | $\pm 10\%$ | 0.5 - 10k | 22 | side, R6 | 120 | 1/4-28 | 5 μg | 80 g | 145 | |
| Extended temperature range | | | | | | | | | | | |
| HT780A | 100 mV/g | $\pm 5\%$ | 0.5 - 14k | 30 | top, R6 | 150 | 1/4-28 | 5 μg | 80 g | 62 | |
| HT786A | 100 mV/g | $\pm 5\%$ | 0.5 - 14k | 30 | top, R6 | 150 | 1/4-28 | 5 μg | 80 g | 90 | |
| HT787A | 100 mV/g | $\pm 5\%$ | 0.5 - 10k | 22 | side, R6 | 150 | 1/4-28 | 5 μg | 80 g | 145 | |
| 376/CC701HT | 100 mV/g | $\pm 10\%$ | 1.0 - 15k | 30 | top, R1 / inline, R2 | 260 / 100 | 1/4-28 | broadband: 0.001 g | 50 g | 75/40 | |
| High sensitivity / low frequency | | | | | | | | | | | |
| 786-500 | 500 mV/g | $\pm 5\%$ | 0.2 - 14k | 30 | top, R6 | 120 | 1/4-28 | 1.5 μg | 10 g | 90 | Y |
| 786LF-500 | 500 mV/g | $\pm 5\%$ | 0.1 - 13k | 30 | top, R6 | 120 | 1/4-28 | 2 μg | 10 g | 90 | |
| 787-500 | 500 mV/g | $\pm 5\%$ | 0.2 - 10k | 22 | side, R6 | 120 | 1/4-28 | 1.5 μg | 10 g | 145 | Y |
| 793L | 500 mV/g | $\pm 5\%$ | 0.2 - 2.3k | 15 | top, R6 | 120 | 1/4-28 | 0.2 μg | 10 g | 142 | Y |
| 797L | 500 mV/g | $\pm 5\%$ | 0.2 - 3.7k | 18 | side, R6 | 120 | 1/4-28 | 0.2 μg | 10 g | 148 | Y |
| 799LF | 500 mV/g | $\pm 5\%$ | 0.1 - 2.5k | 18 | top, R6 | 120 | 1/4-28 | 1 μg | 10 g | 205 | |
| Integral cable | | | | | | | | | | | |
| 786F | 100 mV/g | $\pm 5\%$ | 0.5 - 13k | 30 | top, integral cable | 120 | 1/4-28 | 5 μg | 80 g | 90 | Y |
| 787F | 100 mV/g | $\pm 5\%$ | 0.5 - 10k | 22 | side, integral cable | 120 | 1/4-28 | 5 μg | 80 g | 145 | |
| 712F | 100 mV/g | $\pm 10\%$ | 3.0 - 25k | >45 | side, integral cable | 120 | 8-32 | 10 μg | 60 g | 35 | |
| 780FM-2-J88C | 100 mV/g | $\pm 15\%$ | 0.4 - 12k | 30 | top, integral cable | 120 | 1/4-28 | 4 μg | 80 g | 150.5 | |
| High g sensors | | | | | | | | | | | |
| 786A-I | 10 mV/g | $\pm 5\%$ | 0.5 - 14k | 30 | top, R6 | 120 | 1/4-28 | 23 μg | 500 g | 90 | |
| 732A/732AT | 10 mV/g | $\pm 5\%$ | 0.5 - 25k | 60 | side/top, R1 | 120 | 10-32 | 3 μg | 500 g | 13 | |
| 793-10 | 10 mV/g | $\pm 5\%$ | 1.0 - 15k | 25 | top, R6 | 120 | 1/4-28 | 40 μg | 500 g | 110 | Y |
| 997 | 10 mV/g | $\pm 10\%$ | 0.5 - 29k | >45 | side, integral cable | 120 | 8-32 or M4 | 9 μg | 600 g | 35 | |
| Specialty sensors | | | | | | | | | | | |
| HV100/200 | 100 mV/g | $\pm 5\%$ | 0.5 - 12k | 25 | top, R6 or M12 | 120 | 1/4-28, M6 or M8 | 5 μg | 80 g | 122 or 126 | |
| HV100/200LF | 100 mV/g | $\pm 5\%$ | 0.1 - 11k | 28 | top, R6 or M12 | 120 | | 5 μg | 80 g | | |
| HV100/200LF-500 | 500 mV/g | $\pm 5\%$ | 0.1 - 11k | 28 | top, R6 or M12 | 120 | | 2 μg | 10 g | | |
| 732-1D | 10 mV/g | $\pm 5\%$ | 0.4 - 22k | 28 | top, BNC | 120 | 10-32 | 4 μg | 500 g | 28 | |
| LPA100T | 50 mV/g | $\pm 5\%$ | 0.3 - 15k | 30 | top, M12 | 120 | 1/4-28 | 16 μg | 25 g | 90 | Y |
| 793R | 100 mV/g | $\pm 5\%$ | 1.0 - 15k | 26 | top, R6 | 120 | 1/4-28 | 5 μg | 80 g | 110 | |
| 797R | 100 mV/g | $\pm 5\%$ | 1.0 - 15k | 26 | side, R6 | 120 | 1/4-28 | 5 μg | 50 g | 135 | |

| Wilcoxon model | Sensitivity | Sensitivity tolerance, ± | Frequency response, ±3 dB | Resonance | Exit type / connector | Max temp | Mounting thread | psd noise @ 100 Hz | Acceleration range | Weight grams | Haz. area option |
|--|---------------------|--------------------------|----------------------------|-----------|-----------------------|----------|-----------------|---------------------|--------------------|--------------|------------------|
| | | | Hz | kHz | | °C | | /√Hz | peak | | |
| Seismic | | | | | | | | | | | |
| 731A | 10 V/g | ±10% | 0.05 - 450 | 0.75 | top, R6 | 65 | 3/8-16 | 0.004 µg | 0.5 g | 760 | |
| 731A/P31 | 10-1,000 V/g | ±10% | 0.05 - 450 | 0.75 | BNC | 65 | 3/8-16 | 0.004 µg | 0.5 g | 760/600 | |
| 735T | 10 V/g | ±10% | 0.01 - 350 | 0.7 | top, M12 | 65 | M6x1 | 0.0035 µg | 0.5 g | 380 | |
| 731-207 | 10 V/g | ±10% | 0.2 - 1.3k | 2.4 | top, R1 | 80 | 10-32 | 0.03 µg | 0.5 g | 60 | |
| 799M | 1 V/g | ±5% | 0.2 - 2.5k | 18 | top, R6 | 80 | 1/4-28 | 1 µg | 5 g | 205 | |
| Dual output (vibration + temperature) | | | | | | | | | | | |
| 786T | 100 mV/g | ±5% | 0.5 - 12k | 30 | top, R6G | 120 | 1/4-28 | 5 µg | 80 g | 90 | Y |
| 787T | 100 mV/g | ±5% | 0.5 - 12k | 22 | side, R6G | 120 | 1/4-28 | 5 µg | 80 g | 145 | |
| 793T-3 | 100 mV/g | ±5% | 0.5 - 15k | 24 | top, R6G | 120 | 1/4-28 | 5 µg | 80 g | 115 | |
| 797T-1 | 100 mV/g | ±5% | 1.0 - 12k | 26 | side, R6G | 120 | 1/4-28 | 5 µg | 80 g | 135 | |
| 797LT | 500 mV/g | ±5% | 0.2 - 3.7k | 18 | side, R6G | 120 | 1/4-28 | 0.2 µg | 10 g | 160 | |
| Piezovelocity transducers | | | | | | | | | | | |
| 793V | 100 mV/ips | ±10% | 2.5 - 7k | 15 | top, R6 | 120 | 1/4-28 | 1.0 µin/sec | 50 in/sec | 145 | Y |
| 793V-5 | 500 mV/ips | ±10% | 5.0 - 7k | 15 | top, R6 | 120 | 1/4-28 | 0.4 µin/sec | 10 in/sec | 145 | |
| 793V100-5 | 100 mV/ips | ±5% | 2.5 - 7k | 15 | top, R6 | 120 | 1/4-28 | 1.0 µin/sec | 50 in/sec | 145 | |
| 793VR | 100 mV/ips | ±10% | 2.0 - 7k | 15 | top, R6 | 120 | 1/4-28 | 1.0 µin/sec | 50 in/sec | 133 | |
| 797V | 100 mV/ips | ±10% | 1.6 - 7k | 18 | side, R6 | 120 | 1/4-28 | 0.8 µin/sec | 50 in/sec | 148 | Y |
| 893V | 100 mV/ips | ±5% | 4.5 - 5k | 15 | top, R6 | 120 | 1/4-28 | 1.5 µin/sec | 50 in/sec | 145 | |
| Triaxial | | | | | | | | | | | |
| 993B series (-5, -6, -7) | 25, 50, or 100 mV/g | ±10% | Z: 2 - 10k X, Y: 2 - 7k | >35 | top, integral cable | 120 | 10-32 | 3.2, 2.0, or 1.4 µg | 160, 80 or 40 g | 134 | Y |
| 993B-7-M12 | 100 mV/g | ±10% | Z: 2 - 10k X, Y: 2 - 7k | >35 | top, M12 | 120 | 10-32 | 2 µg | 60 g | 124 | Y |
| Traditional | | | | | | | | | | | |
| 793 | 100 mV/g | ±5% | 0.5 - 15k | 25 | top, R6 | 120 | 1/4-28 | 5 µg | 80 g | 112 | Y |
| 797 | 100 mV/g | ±5% | 1.0 - 12k | 26 | side, R6 | 120 | 1/4-28 | 5 µg | 80 g | 138 | Y |
| 793-6 | 100 mV/g | ±10% | 1.0 - 12k | 25 | top, R6 | 150 | 1/4-28 | 10 µg | 50 g | 135 | |
| 797-6 | 100 mV/g | ±10% | 1.0 - 11k | 18.5 | side, R6 | 150 | 1/4-28 | 10 µg | 50 g | 145 | |
| Underwater accelerometers | | | | | | | | | | | |
| 746 | 100 mV/g | ±5% | 1.0 - 15k | 30 | top, integral cable | 80 | 10-32 | 0.8 µg | 80 g | 45 | |

| 4-20 mA output vibration sensors | | | | | | | | | | | |
|---|--------------|----------------------|-----------------------------|-----------|--------------------------------|-----------------------|---------------|-----------------|----------------|------------------|--|
| Wilcoxon model | Measurement | Loop output options | Full scale, 20 mA | Tolerance | Frequency response, ±3 dB (Hz) | Exit type / connector | Max temp (°C) | Mounting thread | Weight (grams) | Haz. area option | |
| PC420A | Acceleration | RMS, peak, true peak | 5, 10, 20, 50 g | ±5% | 1.0 - 2k | top, R6 | 105°C | 1/4-28 | 162 | Y | |
| PC420V | Velocity | RMS, peak | 0.5, 1.0, 2.0, 3.0, 5.0 ips | ±5% | 1.0 - 2k | top, R6 | 105°C | 1/4-28 | 162 | Y | |
| PC420DPP-40 | Displacement | peak-to-peak | 40 mils | ±5% | 10 - 1k | top, R6 | 85°C | 1/4-28 | 162 | | |
| PC420A-EX | Acceleration | RMS, peak, true peak | 5, 10, 20, 50 g | ±5% | 4.0 - 2k | flying leads | 85°C | 3/8-24 | 380 | Y | |
| PC420V-EX | Velocity | RMS, peak | 0.5, 1.0, 2.0, 3.0, 5.0 ips | ±5% | 4.0 - 2k | flying leads | 85°C | 3/8-24 | 380 | Y | |
| PCC421A | Acceleration | RMS, peak | 5, 10, 20, 50 g | ±5% | 4.0 - 2k | side, R6 | 105°C | 1/4-28 | 140 | | |
| PCC421V | Velocity | RMS, peak | 0.5, 1.0, 2.0, 3.0, 5.0 ips | ±5% | 4.0 - 2k | side, R6 | 105°C | 1/4-28 | 140 | | |
| PCH420V | Velocity | RMS, peak, true peak | 0.5 - 5.0 ips | ±5% | 3.0 - 1.95k | top, M12 | 105°C | 1/4-28 | 115 | Y | |