





 M5 Output Type : YMC 111A series YMC 211A series		 Integral Cable : YMC 211A05 YMC 211A10			
Model : YMC	Sensitivity	Frequency Range (±10%)	Measuring Range	Resolution	Operating Temperature	Weight	Output Type	Mounting Type	Size	Remark
111A01	0.5mV/g	1Hz to 10kHz	±10,000g	0.05grms	-40 to +121°C	8 Gram	M5	M5	Φ12 x25mm	Integral Cable selectable
111A02	0.2mV/g	1Hz to 10kHz	±25,000g	0.1grms	-40 to +121°C	8Gram			Φ12 x25mm	
211A01	0.5pC/g	1Hz to 15kHz	±10,000g	N/A	-54 to +150°C	8Gram	M5	M6×0	Φ12 x25mm	
211A02	0.2 pC /g	1Hz to 15kHz	±25,000g	N/A	-54 to +150°C	10 Gram			Φ12 x25mm	
211A05	0.1pC/g	1Hz to 10kHz	±50,000g	N/A	-54 to +150°C	10 Gram	Integral Cable with M5	.75	Φ12x20mm	
211A10	0.05pC/g	1Hz to 10kHz	±100,000g	N/A	-54 to +150°C	10Gram			Φ12x20mm	

1.2. General Purpose Single Axis/Triaxial Accelerometers

YMC series General Purpose Accelerometers are applied for Vibration Testing, Product Testing, Structural Testing, Vibration Control, Package Drop Testing etc.

 <p><b>YMC 121A series:</b> IEPE Mode, Top Output</p> <p><b>YMC 221A series:</b> Charge(PE) Mode, Top Output</p>	 <p><b>YMC 122A series:</b> IEPE Mode, Side Output</p> <p><b>YMC 222A series:</b> Charge(PE) Mode, Side Output</p>	 <p><b>YMC 143A series:</b> Triaxial, IEPE Mode</p> <p><b>YMC 243A series:</b> Triaxial, Charge(PE) Mode</p>	 <p><b>YMC 145A series:</b> Triaxial, IEPE Mode</p> <p><b>YMC 245A series:</b> Triaxial, Charge(PE) Mode</p>	 <p><b>YMC 146A series:</b> Triaxial, IEPE Mode</p> <p><b>YMC 246A series:</b> Triaxial, Charge(PE) Mode</p>
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1.2.1. General Purpose Single Axis Charge(PE) Mode Accelerometers

Model : YMC	Sensitivity	Frequency Range (±10%)	Measuring Range	Operating Temperature	Output Type	Mounting Type	Size	Weight
221A10	10pC/g	1Hz to 12kHz	±5000g	-54 to +150°C	M5	Top M5	Φ13x25mm	12Gram
222A10	10pC/g	1Hz to 12kHz	±5000g	-54 to +150°C	M5	Side M5	Φ13x20 mm	12Gram
221A25	25pC/g	1Hz to 10kHz	±2000g	-54 to +150°C	M5	Top M5	Φ13x25mm	15Gram
222A25	25pC/g	1Hz to 10kHz	±2000g	-54 to +150°C	M5	Side M5	Φ13x20 mm	15Gram
221A50	50pC/g	0.5Hz to 6kHz	±1000g	-54 to +150°C	M5	Top M5	Φ16x28 mm	32Gram
222A50	50pC/g	0.5Hz to 6kHz	±1000g	-54 to +150°C	M5	Top M5	Φ16x23 mm	32Gram
221A100	100pC/g	0.5Hz to 6kHz	±1000g	-54 to +150°C	M5	Side M5	Φ16x28 mm	38Gram
222A100	100pC/g	0.5Hz to 6kHz	±1000g	-54 to +150°C	M5	Top M5	Φ16x23mm	38Gram
221A200	200pC/g	0.5Hz to 5kHz	±600g	-54 to +150°C	M5	Side M5	Φ18x31 mm	45Gram
222A200	200pC/g	0.5Hz to 5kHz	±600g	-54 to +150°C	M5	Top M5	Φ18x26 mm	45Gram
221A500	500pC/g	0.2Hz to 3kHz	±150g	-54 to +150°C	M5	Side M5	Φ18x31 mm	50Gram
222A500	500pC/g	0.2Hz to 3kHz	±150g	-54 to +150°C	M5	Top M5	Φ26x26 mm	50Gram
222A1000	1000pC/g	0.2Hz to 2kHz	±80g	-54 to +150°C	M5	Side M5	Φ18x26 mm	60Gram
2106C	25pC/g	1Hz to 10kHz	±2000g	-54 to +150°C	M5	Top M5	Φ13x20 mm	15Gram



1.2.2. General Purpose Single Axis IEPE Mode Accelerometers

Model : YMC	Sensitivity	Frequency Range (±10%)	Measuring Range	Resolution	Operating Temperature	Weight	Output Type	Mounting Type	Size
121A01	1mV/g	1Hz to 12kHz	±5000g	10mgrms	-40 to +121°C	9Gram	Top M5	M5	Φ12×20mm
122A01	1mV/g	1Hz to 12kHz	±5000g	10mgrms	-40 to +121°C	10Gram	Side M5	M5	Φ12×16mm
121A05	5mV/g	1Hz to 12kHz	±1000g	5mgrms	-40 to +121°C	9Gram	Top M5	M5	Φ12×20mm
122A05	5mV/g	1Hz to 12kHz	±1000g	5mgrms	-40 to +121°C	10Gram	Side M5	M5	Φ12×16mm
121A10	10mV/g	1Hz to 10kHz	±500g	2.5mgrms	-40 to +121°C	9.5Gram	Top M5	M5	Φ12×20mm
122A10	10mV/g	1Hz to 10kHz	±500g	2.5mgrms	-40 to +121°C	12Gram	Side M5	M5	Φ12×16mm
121A20	20mV/g	1Hz to 10kHz	±250g	1.5mgrms	-40 to +121°C	9.5Gram	Top M5	M5	Φ12×20mm
122A20	20mV/g	1Hz to 10kHz	±250g	1.5mgrms	-40 to +121°C	12Gram	Side M5	M5	Φ12×16mm
121A50	50mV/g	0.5Hz to 8kHz	±100g	1mgrms	-40 to +121°C	18Gram	Top M5	M5	Φ13×20mm
122A50	50mV/g	0.5Hz to 8kHz	±100g	1mgrms	-40 to +121°C	18Gram	Side M5	M5	Φ13×16mm
121A100	100mV/g	0.5Hz to 8kHz	±50g	0.5mgrms	-40 to +121°C	18Gram	Top M5	M5	Φ13×22mm
122A100	100mV/g	0.5Hz to 8kHz	±50g	0.5mgrms	-40 to +121°C	20Gram	Side M5	M5	Φ13×22mm
121A200	200mV/g	0.3Hz to 5kHz	±25g	0.2mgrms	-40 to +121°C	28Gram	Top M5	M5	Φ18×31mm
122A200	200mV/g	0.3Hz to 5kHz	±25g	0.2mgrms	-40 to +121°C	30Gram	Side M5	M5	Φ18×26mm
121A500	500mV/g	0.2Hz to 3kHz	±10g	0.1mgrms	-40 to +121°C	40Gram	Top M5	M5	Φ18×31mm
122A500	500mV/g	0.2Hz to 3kHz	±10g	0.1mgrms	-40 to +121°C	57Gram	Side M5	M5	Φ18×26mm
122A1000	1000mV/g	0.2Hz to 1kHz	±5g	0.05mgrms	-40 to +121°C	65Gram	Side M5	M5	Φ26×30 mm

1.2.3. General Purpose Triaxial IEPE /PE Mode Accelerometers

Model : YMC	Sensitivity	Frequency Range (±10%)	Measuring Range	Resolution	Operating Temperature	Weight	Output Type	Mounting Type	Size
143A10	10mV/g	1Hz to 6kHz	±500g	0.005grms	-40 to +121°C	34 Gram	3-M5	2-Φ3 hole	25.4X22 X13mm
143A20	20mV/g	1Hz to 6kHz	±250g	0.003grms	-40 to +121°C	50Gram			
143A50	50mV/g	1Hz to 5kHz	±100g	0.001grms	-40 to +121°C	34Gram			
243A10	10pC/g	1Hz to 6kHz	±200g	N/A	-54 to +150°C	34Gram	3-M5	Φ5 hole /M6(Z); 2-M5(X,Y)	25.4X25.4 X14mm
145A10	10mV/g	1Hz to 6kHz	±500g	0.005grms	-40 to +121°C	54Gram			
145A20	20mV/g	1Hz to 6kHz	±250g	0.003grms	-40 to +121°C	43Gram			
145A50	50mV/g	1Hz to 5kHz	±100g	0.001grms	-40 to +121°C	45Gram			
145A100	100mV/g	1Hz to 5kHz	±50g	0.0005grms	-40 to +121°C	45Gram			
245A10	10pC/g	1Hz to 5kHz	±2000g	N/A	-54 to +150°C	42Gram			
245A20	20pC/g	1Hz to 5kHz	±1000g	N/A	-54 to +150°C	70Gram	4-pin Socket	Φ5 hole / M6	75X75 X38mm
146A01	1000mV/g	0.2Hz to 500Hz	±5g	0.0001grms	-40 to +121°C	820 Gram			
146A02	2000mV/g	0.2Hz to 500Hz	±2.5g	0.0001grms	-40 to +121°C	820 Gram			
246A01	1000pC/g	0.2Hz to 500Hz	±100g	N/A	-54 to +150°C	820 Gram			






1.3. High Sensitivity, Low Frequency Accelerometers

<p><b>YMC</b> series High sensitivity ,IEPE accelerometers are specifically designed to enable the detection of ultra-low-level ,low-frequency vibrations associated with very structures, foundations, and earth tremors.</p> <p>Applications</p> <ul style="list-style-type: none"> <li>➤ Building Vibration Monitoring</li> <li>➤ Earthquake Detection</li> <li>➤ Structural Testing of Bridges</li> <li>➤ Floor and Foundation Vibration Monitoring</li> </ul>	 IEPE Mode: <b>YMC</b> 131A series	 IEPE Mode: <b>YMC</b> 132A series Charge(PE) Mode: <b>YMC</b> 232A series
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Model : <b>YMC</b>	Sensitivity	Frequency Range (±10%)	Measuring Range	Resolution	Operating Temperature	Weight	Output Type	Mounting Type	Size	Remark
<b>131A01</b>	1.0V/g	0.2Hz to 2kHz	±5g	0.1mgrms	-40 to +121 °C	185Gram	MIL-C-501	M6	Φ32x66mm	Isolated output
<b>131A02</b>	2.0V/g	0.2Hz to 1kHz	±2.5g	0.1mgrms	-40 to +121 °C	185Gram	5			
<b>131A05</b>	5.0V/g	0.1Hz to 800Hz	±1g	0.01mgrms	-40 to +121 °C	185Gram	2 pins			
<b>132A01</b>	1.0V/g	0. 2Hz to 2kHz	±5g	0.1mgrms	-40 to +121 °C	180Gram	M5	M8	Φ 37x32mm	Isolated Mounting
<b>132A02</b>	2.0V/g	0.2Hz to 1kHz	±2.5g	0.1mgrms	40 to +121 °C	180Gram			Φ 37x32mm	
<b>132A05</b>	5.0V/g	0.2Hz to 800Hz	±1.0g	0.01mgrms	40 to +121 °C	200Gram			Φ 40x48mm	
<b>132A10</b>	10.0V/g	0.1Hz to 500Hz	±0.5g	0.01mgrms	-54 to +121 °C	250Gram			Φ 40x48mm	
<b>232A01</b>	1,000pC/g	0.2Hz to 2kHz	±100g	N/A	-54 to +150 °C	180Gram			Φ 37x32mm	
<b>232A02</b>	2,500pC/g	0.2Hz to 1kHz	±50	N/A	-54 to +150 °C	180Gram			Φ 37x32mm	
<b>232A03</b>	5,000pC/g	0.2Hz to 800Hz	±20g	N/A	-54 to +150 °C	200Gram			Φ 40x48mm	
<b>232A04</b>	10,000pC/g	0.1Hz to 500Hz	±10g	N/A	-54 to +150 °C	250Gram			Φ 40x48mm	

1.4. Miniature Accelerometers

YMC series Miniature accelerometers are designed to apply for drop testing & package testing, small component qualification testing, modal testing etc. Small size, light weight.

				
<p><b>YMC 161A series:</b> IEPE Mode, Top Output</p> <p><b>YMC 261A series:</b> Charge(PE) Mode, Top Output</p>	<p><b>YMC 162A series:</b> IEPE Mode, Side Output</p> <p><b>YMC 262A series:</b> Charge(PE) Mode, Side Output</p>	<p><b>YMC 164A series:</b> IEPE Mode, Side Output</p> <p><b>YMC 264A series:</b> Charge(PE) Mode, Side Output</p>	<p><b>YMC 266A series:</b> Charge(PE) Mode, Side Output</p>	<p><b>YMC 141A series:</b> Triaxial, IEPE Mode, Side Output</p>

1.4.1. Miniature Single Axis IEPE/Charge(PE) Mode Accelerometers

Model : YMC	Sensitivity	Frequency Range (±10%)	Measuring Range	Resolution	Operating Temperature	Weight	Output Type	Mounting Type	Size
<b>161A100</b>	100mV/g	1Hz to 10kHz	±50g	1mgrms	-40 to +121°C	7.5Gram	M5	Adhesive	Φ11
<b>261A05</b>	5pC/g	1Hz to 10kHz	±2500g	N/A	-54 to +150°C	7Gram	M5		X15mm
<b>162A100</b>	100mV/g	1Hz to 10kHz	±50g	1mgrms	-40 to +121°C	7.5Gram	M5	Adhesive	12X 12 X
<b>262A05</b>	5pC/g	1Hz to 10kHz	±2500g	N/A	-54 to +150°C	7Gram	M5	Isolated	12mm
<b>164A10</b>	10mV/g	1Hz to 12kHz	±500g	10m grms	-40 to +121°C	4Gram	Integral Cable /5-44	M3/5-40	Φ8
<b>264A03</b>	3pC/g	1Hz to 12kHz	±10000g	N/A	-54 to +150°C	5.0Gram		M3/5-40	X12.5mm
<b>266A01</b>	1pC/g	1Hz to 15kHz	±20000g	N/A	-54 to +150°C	1.8Gram		Adhesive	Φ5×10mm

1.4.2. Miniature Triaxial IEPE Mode Accelerometers

Model : YMC	Sensitivity	Frequency Range (±10%)	Measuring Range	Resolution	Operating Temperature	Weight	Output Type	Mounting Type	Size
<b>141A10</b>	10mV/g	1Hz to 6kHz	±500g	10mgrms	-40 to +121°C	12 Gram	1/4-28 4-pin	M2.5/Adhesive	12mm <sup>3</sup>
<b>141A20</b>	20mV/g	1Hz to 6kHz	±250g	6mgrms	-40 to +121°C	12Gram	1/4-28 4-pin	M2.5/Adhesive	12mm <sup>3</sup>
<b>141A50</b>	50mV/g	1Hz to 6kHz	±100g	2mgrms	-40 to +121°C	17.5Gram	1/4-28 4-pin	M2.5/Adhesive	14mm <sup>3</sup>
<b>141A100</b>	100mV/g	1Hz to 6kHz	±50g	1mgrms	-40 to +121°C	17.5Gram	1/4-28 4-pin	M2.5/Adhesive	14mm <sup>3</sup>

### 1.5. Industrial Accelerometers & Accelerometers with Temperature output

#### 1.5.1. Industrial Accelerometers(Condition Monitoring)

**YMC** Series industrial accelerometers are rugged, stainless steel vibration monitoring sensors for predictive maintenance applications. All YMC sensors are hermetically sealed, case isolated, laser welding sealing, waterproof, prevent oil design; Suitable for the industrial field environment under long-term stable and reliable work;

- ✚ **YMC**151A series industrial condition monitoring accelerometers have passed Intrinsic safety certified;
- ✚ **YMC** 151A series can provide 4 to 20 mA output; Low noise, strong anti-jamming capability;
- ✚ **YMC**152A/252A series Low cost, suitable for permanent installation and long-term on-line monitoring;
- ✚ **YMC**153A series :low excitation voltage (low to 5 VDC) IEPE accelerometer, suitable for hand-held vibration Meter with battery power supply;

<b>YMC</b> 151A100D	<b>YMC</b> 151A500D	<b>YMC</b> 151A100C <b>YMC</b> 151A500C	<b>YMC</b> 151A series Cable	<b>YMC</b> 152A series <b>YMC</b> 252A series	<b>YMC</b> 153 A series

Model <b>YMC</b>	Sensitivity	Frequency Range (±10%)	Measuring Range	Resolution	Operating Temperature	Weight	Output Type	Mounting Type	Size
<b>151A100D</b>	100mV/g	0.5Hz to 6kHz	±50g	0.5mgrms	-40 to +121°C	80Gram	MIL-C-5015 2芯	M6 1/4-28 可选	Φ22X45mm
<b>151A100C</b>	100mV/g	0.5Hz to 6kHz	±50g	0.5mgrms	-40 to +121°C	130Gram			23X35X25mm
<b>151A500D</b>	500mV/g	0.2Hz to 2kHz	±10g	0.15mgrms	-40 to +121°C	90Gram			Φ22X51mm
<b>151A500C</b>	500mV/g	0.2Hz to 2kHz	±10g	0.15mgrms	-40 to +121°C	130Gram			23X35X25mm
<b>252A25</b>	25pC/g	0.5Hz to 5kHz	±2,000g	N/A	-54 to +150°C	37Gram	TNC	M5	Φ18X40mm
<b>252A100</b>	25pC/g	0.5Hz to 5kHz	±2,000g	N/A	-54 to +150°C	51Gram	TNC		Φ18X40mm
<b>152A100</b>	100mV/g	0.5Hz to 8kHz	±50g	0.5mgrms	-40 to +121°C	32Gram	TNC		Φ18X40mm
<b>153A100</b>	100mV/g	0.5H to 8kHz	±15g	0.5mgrms	-40 to +121°C	32Gram	2-pin		Φ18X40mm

#### 1.5.2. Accelerometers with Temperature output

<p><b>YMC series</b> Temperature/acceleration sensors integrated temperature sensor and Single Axis/Triaxial accelerometers. Whole sealing, moistureproof, dustproof, high reliability.</p>	 <b>YMC154AT100C</b>	 <b>YMC154AT100D</b>	 <b>YMC156AT100</b>
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Model : <b>YMC</b>	Sensitivity	Frequency Range (±10%)	Measuring Range	Resolution	Weight	Output Type	Mounting Type	Size
<b>154AT100C</b>	100mV/g	1Hz to 5kHz	±50g	0.5mgrms	55Gram	Integral cable	M12	Φ21×34mm
	10mV/°C	-	-20 to +120°C	±0.5°C				
<b>154AT100D</b>	100mV/g	1Hz to 5kHz	±50g	0.5mgrms	38Gram		M12	Φ21×50mm
	10mV/°C	-	-20 to +120°C	±0.5°C				
<b>156AT100</b>	100mV/g	0.5Hz to 3kHz	±50g	0.5mgrms	210Gram	M6/2-M5 /Φ6Hole	41×41×20mm	
	10mV/°C	-	-20 to +120°C	±0.5°C				

**1.6. Standard, High Temperature, Water-proof Accelerometers**

**1.6.1. Standard Accelerometer**

**YMC271A01 Calibration Lab Standard Accelerometers**

Characteristics: Quartz accuracy and stability rugged design, low base strain sensitivity, low mass loading sensitivity,

Applications: Transfer standard for back-to-back calibration of accelerometer field calibrations.



Model :	Sensitivity	Frequency Range (±10%)	Measuring Range	Transverse Sensitivity	Operating Temperature	Weight	Output Type	Mounting Type	Size
YMC 271A01	1.20 pC/g	1Hz to 8kHz	±1000g	<3%	-74 to +200°C	38Gram	M5/10-32	2-M5/10-32	Φ21×25.4mm

**1.6.2. High Temperature Accelerometers**

**YMC272A series** offers specially designed and tested accelerometers for conducting and shock measurements under demanding environmental conditions, They are applied for High temperature vibration measurements, engine compartment studies, thermal stress screening, environmental testing, combined environmental chambers.

Applications

- High Temperature Vibration Measurements
- Engine Compartment Studies
- Exhaust Component Vibration Tests
- Steam Turbine Testing
- Engine Vibration Analysis



Model :	Sensitivity	Frequency Range (±3dB)	Measuring Range	Operating Temperature	Weight	Output Type	Mounting Type	Size
YMC 272A50	50 pC/g	0.5Hz to 8kHz	±1000g	-54 to +250°C	32Gram	M5	M5	Φ16×22mm
2107CM	50 pC/g	0.5Hz to 8kHz	±1000g	-70 to +220°C	32Gram	M5	High temperature integral Cable	Φ16×22mm

**1.6.3. Water-proof Accelerometers**

**YMC273A50 (Charge(PE) Type), YMC 173A100 (IEPE MODE)** series water-proof accelerometers and all connecting leads are completely waterproof and designed to withstand water pressure and temperature variations. These accelerometers are equipped with an integral sheathed cable that can be ordered in any length up to 100 meters. Consult the factory for customized versions of these sensors.



Model :	Sensitivity	Frequency Range (±10%)	Measuring Range	Operating Temperature	Weight	Output Type	Mounting Type	Size	Remark
YMC 173A100	100mV/g	1Hz to 8kHz	±50g	-40 to +121°C	35Gram	Integral	M5	Φ16×22mm	Sensitivity
273A50	50pC/g	1Hz to 8kHz	±1000g	-54 to +150°C	35Gram	Waterproof cable/M5	M5	Φ16×22mm	Customized