## **Model 4332 Accelerometer**

# MEMS Triaxial Accelerometer Temperature Calibrated IP68 Protection Low Noise, High Resolution

The Model 4332 is a low noise triaxial accelerometer offering both static and dynamic response. The accelerometer is packaged in an anodized aluminum housing and is offered in ±2g & ±5g range. The model 4332 features an integral cable and is certified to IP68 protection. The accelerometer incorporates a 50Hz LP filter and an operating temperature range of -40°C to +85°C.

#### **FEATURES**

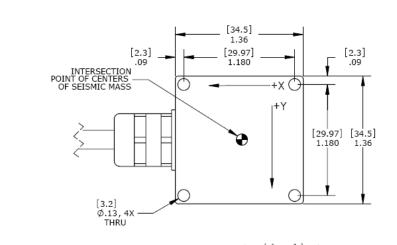
- Low Noise, High Signal-to-Noise
- Three Independent Circuits
- Low Current Consumption
- ±2g & ±5g Dynamic Range
- DC Response
- Temperature Compensation

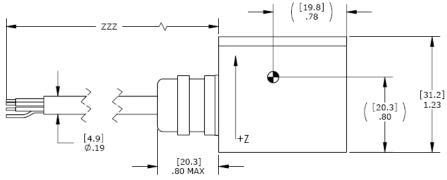
### **APPLICATIONS**

- Transportation Measurements
- Structural Monitoring
- Bridge Monitoring
- Low Frequency Applications
- Motion Analysis



### dimensions





### 深圳市新世联科技有限公司

地址:深圳市深南中路2066号华能大厦712室

电话: 0755-83680810 83680820 83680830 83680860

网址: www.apollounion.com

邮编: 518031

传真: 0755-83680866

邮箱: sales@apollounion.com



## **Model 4332 Accelerometer**

### performance specifications

All values are typical at +24°C, 100Hz and 12Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers.

Parameters			
DYNAMIC			Notes
Range (g)	±2	±5	
Sensitivity (mV/g)	1000	400	±10%
-3dB Cutoff Frequency (Hz)	50 +20/-0	50 +20/-0	
Rolloff Above Cutoff Frequency (dB/dec)	-40	-40	
Natural Frequency (Hz)	700	700	
Non-Linearity & Hysteresis (%FSO)	±0.5	±0.5	
Transverse Sensitivity (%)	<3	<3	<2 Typical
Damping Ratio	0.7	0.7	•••
Shock Limit (g)	5000	5000	
ELECTRICAL			
Zero Acceleration Output (V)	2.5 ±0.1	2.5 ±0.1	
Excitation Voltage (Vdc)	5 to 30	5 to 30	
Excitation Current (mA)	<15	<15	
Full Scale Output Voltage Swing (Vdc)	0.5 to 4.5	0.5 to 4.5	
Output Impedance (Ω)	<100	<100	
Insulation Resistance (MΩ)	>50	>50	@50Vdc
Turn On Time (msec)	<100	<100	
Residual Noise (μg)	80	50	0.1 to 100Hz
Ground Isolation	Isolated from Mounting Surface		
ENVIRONMENTAL			
Thermal Zero Shift (%FSO/°C)	±0.04		0 to +65°C
` ,	±0.04 ±0.04		0 to +65°C
Thermal Sensitivity Shift (%/°C)	-40 to 85		0 10 ±05 C
Operating Temperature (°C)	- <del>4</del> 0 (0 65		

**PHYSICAL** 

Compensated Temperature (°C)

Storage Temperature (°C)

Case Material Anodized Aluminum

Cable PVC Insulated Leads, Braided Shield, PVC Jacket

0 to 65 -40 to 85

Weight (grams) <10

 Mounting
 4x #4 or M3 Screws

 Mounting Torque
 6 lb-in (0.7 N-m)

 AWG (model 4332)
 6x 0.14 mm²

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 1Hz to 100Hz

**Supplied accessories:** 4x #4-40 (1 ½" length) Socket Head Cap Screw and Washer

Optional accessories: 101 Three Channel DC Signal Conditioner Amplifier

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

#### schematic

4332 Schematic

WIRE DESIGNATIONS: WHITE = INPUT (EXCITATION) BROWN = OUTPUT X AXIS

BROWN = OUTPUT X AXIS GREEN = OUTPUT Y AXIS PINK = OUTPUT Z AXIS

YELLOW = COMMON (CIRCUIT GROUND)

GRAY = NO CONNECTION

#### 深圳市新世联科技有眼公司

地址:深圳市深南中路2066号华能大厦712室 邮编:518031

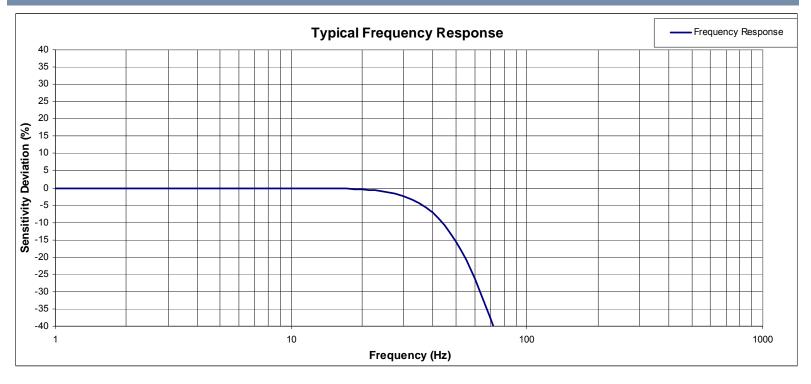
电话: 0755-83680810 83680820 83680830 83680860 传真: 0755-83680866

网址: www.apollounion.com 邮箱: sales@apollounion.com



# **Model 4332 Accelerometer**

## performance specifications



## ordering info

PART NUMBERING Model Number+Range+ Cable Length (as applicable)

Example: 4332-002-120

Model 4332, 2g, 120" Cable

## 深圳市新世联科技有限公司

地址:深圳市深南中路2066号华能大厦712室

电话: 0755-83680810 83680820 83680830 83680860

网址: www.apollounion.com

邮编:518031

传真: 0755-83680866

邮箱: sales@apollounion.com