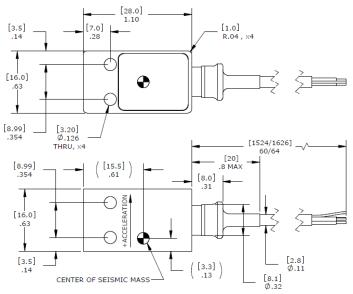
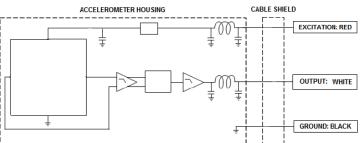






# dimensions





# **MODEL 4201 ACCELEROMETER**

## **SPECIFICATIONS**

- Critically Gas Damped Accelerometer
- Silicon MEMS Technology
- Temperature Compensation
- EMI/RFI Protection
- Custom 8-Pole LP Filters

The Model 4201 single axis accelerometer is designed with performance and reliability in mind. The rugged, gas damped accelerometer is ideally tailored for motorsport applications and road vehicle testing. The model 4201 features an 8-pole low-pass filter to ensure no high frequency engine noise will leak into the passband. A heavy-duty shielded cable and an EMI/RFI module protects the accelerometer from the harsh operating environment. Available in ranges from ±6g to ±50g, the model 4201 will provide reliable measurements from -40°C to +125°C.

### **FEATURES**

- 8-16 Vdc Excitation
- Ranges up to ±50 g's full scale
- Measures static & dynamic acceleration
- Over shock protection to ±5,000 g's
- Operating range from -40 to +125°C
- Built-in 8-pole low-pass filter
- EMI/RFI protection

# **APPLICATIONS**

- Motorsport Racing
- Engine Testing
- Road Vehicle Testing
- Low Frequency Measurements

## PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 12Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

					Notes
±6	±10	±20	±30	±50	
333	200	100	67	40	±10%
100 ±15	100 ±15	100 ±15	100 ±15	100 ±15	See alternate options below
-160	-160	-160	-160	-160	
±1.0	±1.0	±1.0	±1.0	±1.0	
<3	<3	<3	<3	<3	<1% Option
0.7	0.7	0.7	0.7	0.7	
5000	5000	5000	5000	5000	
0.5	0.5	1.0	1.0	3.0	Passband
2.50 ±0.10					Single-ended
8 to 16					· ·
<10					
0.5 to 4.5					
<100					
>100					@100Vdc
<100					
Isolated fr	om Mountir	na Surface			
	333 100 ±15 -160 ±1.0 <3 0.7 5000 0.5 2.50 ±0.10 8 to 16 <10 0.5 to 4.5 <100 >100 <100	333 200 100 ±15 100 ±15 -160 -160 ±1.0 ±1.0 <3 <3 0.7 0.7 5000 5000 0.5 0.5 2.50 ±0.10 8 to 16 <10 0.5 to 4.5 <100 >100 <100	333 200 100 100 ±15 100 ±15 100 ±15 -160 -160 -160 ±1.0 ±1.0 ±1.0 <3 <3 <3 0.7 0.7 0.7 0.7 5000 5000 5000 0.5 0.5 1.0 2.50 ±0.10 8 to 16 <10 0.5 to 4.5 <100 >100	333	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

### **ENVIRONMENTAL**

Thermal Zero Shift (%FSO/°C) ±0.012 Thermal Sensitivity Shift (%/°C) ±0.020 -40 to 125 Operating Temperature (°C) Storage Temperature (°C) -40 to 125

Epoxy Encapsulated, IP65 Humidity

## **PHYSICAL**

Case Material Titanium

3x #24 AWG Conductors, ETFE Insulated, Braided Shield, Crosslinked ETFE Jacket Cable

Weight (grams) 20 (cable not included) Mounting 2x #4 or M3 Screws 6 lb-in (0.7 N-m) Mounting Torque

Calibration supplied: CS-LFREQ-0010 NIST Traceable Amplitude Calibration from 1Hz to 100Hz

Optional accessories: 121 3-Channel Precision Low Noise DC Amplifier

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# **ORDERING INFO**

PART NUMBERING	Model Number+Range+Filter Option
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Model 4201, 10g, 60Hz Low-pass Filter

4201-XX-WW-C	Dash Number	Filter Cutoff Frequency
1 1	-G1	60 Hz
I I Filter Option (G1 Standard)	-G2	40 Hz
Range (06 is ±6g, 10 is ±10g)	-G4	6 Hz
	-G5	100 Hz
cample: 4201-10-G1-C	-G8	80 Hz

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