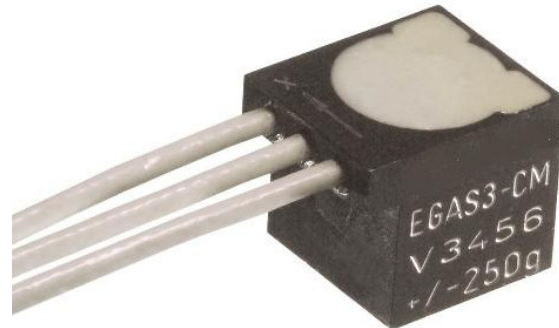


# Model EGAS3 Accelerometer

Miniature Design  
DC Response  
10,000 g Overrange Stops  
Broad Temperature Range



The Model EGAS3 is a cube-shaped, triaxial accelerometer with frequency response to 3500 Hz. Operating from 15 Vdc, this unit features a transverse sensitivity of 2% MAX and damping of 0.7. Overrange stops ensure survivability of the unit under extreme shock conditions while its temperature performance offers a minimal zero shift of  $\pm 1$  mV per 50°C. With rugged, shielded cables, these units are well-suited for a wide range of high-impact studies.

## FEATURES

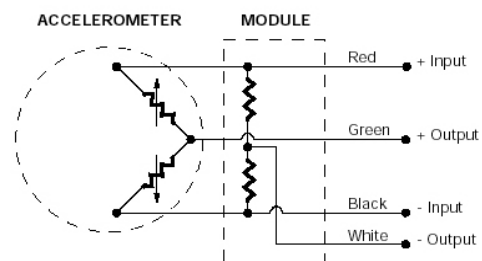
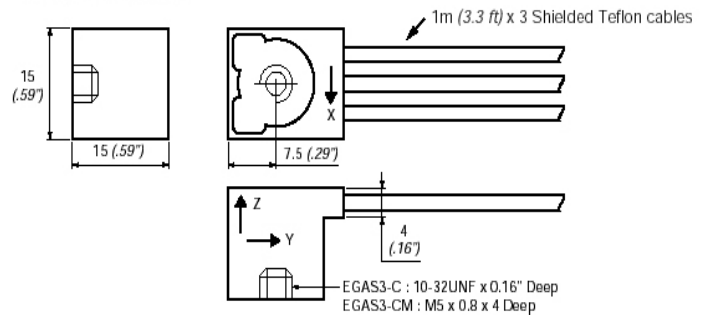
- Small Size
- Static and Dynamic Measurement
- Frequency Response through 3500 Hz
- 2% Transverse Sensitivity
- Damping Ratio 0.7

## APPLICATIONS

- Sports and recreation
- Modeling
- Biodynamics
- Pedestrian Crash Testing

## dimensions

EGAS3-C & EGAS3-CM



# Model EGAS3 Accelerometer

## performance specifications

All values are typical at 25°C and at 15 Vdc excitation unless otherwise stated. Measurement Specialties, Inc. 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											
<b>DYNAMIC</b>											
Range(g)		5	10	25	50		100	250	500	1000	2500
Sensitivity (mV/g)		20	10	4	2		1	0.4	0.2	0.1	0.04
Frequency Response (Hz)		0-150	0-200	0-400	0-600		0-900	0-1300	0-1750	0-2500	0-3500
Resonance (Hz)		300	400	800	1200		1800	2600	3500	5000	7000
Non-Linearity (%)							±1				
Transverse Sensitivity (% MAX)							2				
Zero Acceleration Output (mV)							±15				
Thermal Zero Shift (50°C/100°F)							±1.0mV				
Thermal Sensitivity Shift (50°C/100°F)							±2.5%				
Damping Ratio (Nominal)							0.7				
<b>ELECTRICAL</b>											
Voltage Excitation (Vdc)							15				
Input Resistance (Ohms)							1300				
Output Resistance (Ohms)							1500				
Cable Output Connections											
	Red						+IN				
	Black						-IN				
	Green						+OUT				
	White						-OUT				
<b>PHYSICAL</b>											
Case Material							Aluminum				
Cable Connections							1 m x 3 Shielded Teflon cables				
Weight (grams)							<=8				
Mounting							Stud Mount				
<b>ENVIRONMENTAL</b>											
Shock Limit for Sensitive Axis							10,000				
Operating Temperature (°C/°F)							-40 to 120/-40 to 250				
Compensated Temperature (°C/°F)							20 to 80/70 to 170				

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## ordering info

EGAS3 -C	10	/50	/50	/Z1/L2M/RS	<b>COMPENSATED TEMP. RANGE</b>	<b>STANDARD</b>	<b>=20°C to 80°C</b>
Series	Housings	Range	Range	Options applied to all axes	5 WIRE BRIDE WIRING	Z*	=Non-standard
		X Axis	Y Axis	C or RS	EXCITATION VOLTAGE	5	=5 wire
EGAS3	-C, -CM	(For all axes If Y and Z are blank)		LOOF or LOOM V1 thru V15 or V*	SPECIAL LEAD LENGTH	STANDARD	=15 VDC
				Z1, Z2, Z4 or Z*	SPECIAL MODULE LOCATION	LOOF	= "00" digits for feet
						L00M	= "00" digits for meter
						M00F	= "00" digits with distance between sensor and module in feet or meters
						M00M	=Microtech type male or equivalent (w/o mate)
					CONNECTOR WIRED TO LEADS	C	

### CONTATO

Endereço

Rua Sete de Setembro, 2671 - Centro  
13560-181 - São Carlos - SP - Brasil

Telefone

+ 55 (16) 3371-0112

Fax

+ 55 (16) 3372-7800

Internet

[www.metrolog.net](http://www.metrolog.net)  
[metrolog@metrolog.net](mailto:metrolog@metrolog.net)



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