



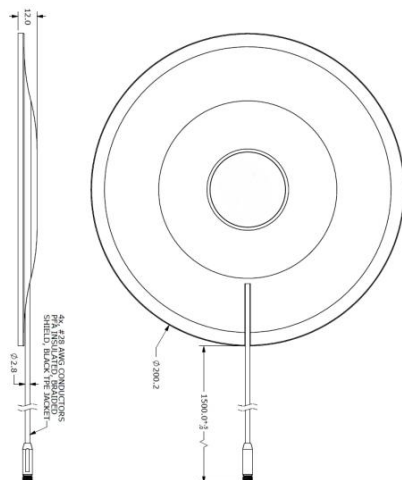
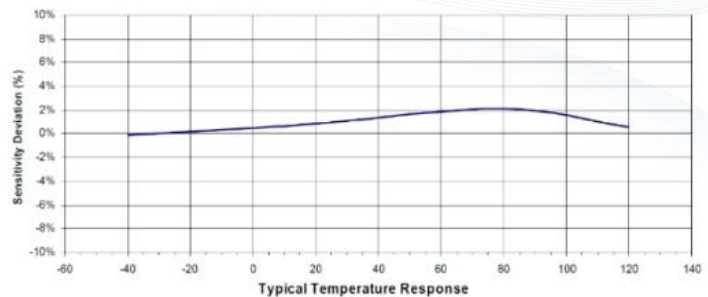
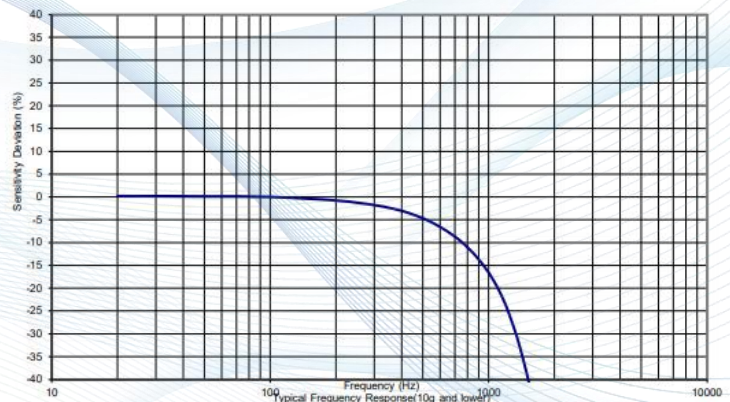
Model P85AT is a static response triaxial seat pad accelerometer designed especially for characterizing whole body vibration in accordance with ISO 2631-1 and ISO 8041. The seat pad incorporates a removable triaxial accelerometer with  $\pm 2000\text{mV}$  full scale output. The model P85AT is designed for static or low frequency measurements with a measurement resolution of  $<1.5\text{mg}$ . A flexible cable is included for simple interface. The accelerometer uses silicon Micro-Electro-Mechanical System (MEMS) sensing element which provides a better operating in low frequency range. The MEMS sensor combines outstanding variable capacitance technology achieve very low sensitivity variation over the operating temperature range, compared to other sensing element designs. The accelerometer enables the test engineer or technician to measure the accelerations of three orthogonal axes of vibration simultaneously on vehicle or platform. All variations provide reliable measurements and long-term stability.

## Features:

- Static response
- 2 to 200g full scale
- Motion, low frequency
- Vehicle drive testing
- 5K g shock survivability
- Temperature compensation

## Application:

- Vehicle drive testing
- Aerospace grounding
- Human motion
- Automotive platform motion test



## Specification:

Dynamic Performance		Unit				
Measurement Range	g	±2	±5	±10	±200	
Sensitivity ±10%	mV/g	1000	400	200	10	
Frequency Range ±5%	Hz	0 ~ 200	0 ~ 300	0~400	0~1000	
Residual Noise (Passband)	µV RMS	1000	600	500	1300	
Zero Acceleration Output	V	2.5±0.1				
Transverse Sensitivity	%	<3				
Non-Linearity	% FSO	±1				
Thermal Zero Shift -40~+85°C	% FSO	±2				
Thermal Sensitivity Shift -40~+85°C	%	±2				
Environmental Parameters						
Operating And Storage Temperature	°C	-40~85				
Electrical Characteristics						
Output Impedance	Ω	< 100				
Full Scale Output Voltagea	Vpk	±2				
Insulation Resistance (@100vdc)	MΩ	> 100				
Excitation Voltage	Vdc	5.5 ~ 30				
Excitation Voltage	mA	< 5				
Physical Properties						
Weight (Cable Not Included)	Grams	380				
Turn On Time	mSEC	<100				
Seat Cushion Material	Nitrile Rubber					
Humidity	Epoxy Potted					

## Random Accessories

CR001	LEMO FGG-1B-307 Connector	Optional
AM005	8 Channels Data Acquisition System	Optional

## Ordering information:

**P85AT**

**GGGG**

Range

0002=2g

0005=5g

0010=10g

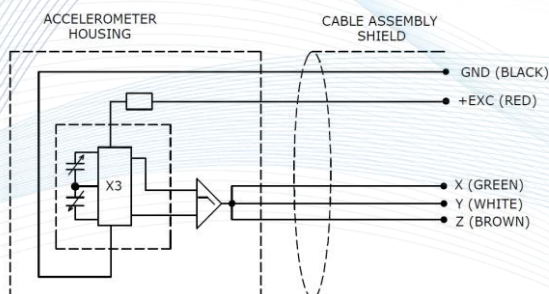
00200=200g

E.G :

**P85AT-2**

Model P85AT, 0002, Connector, No Options

## Wiring configuration:



The data contained in this document is intended for the use of technical trainers only.

The customer's technical department is responsible for assessing the suitability of the product for the intended application and the completeness of the product information given in this document in relation to such application. For further information on products, technology, terms and conditions of delivery and prices, please contact our nearest office ([www.senstechxyz.com](http://www.senstechxyz.com)).

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