G71AT Tri-axial IEPE seat pad accelerometer

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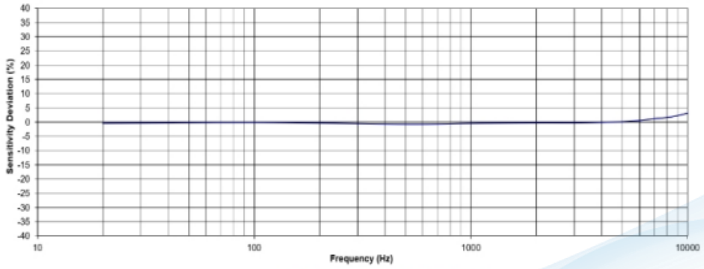
G71AT is an IEPE triaxial seat pad accelerometer designed especially for characterizing whole body vibration in accordance with ISO 2631-1 and ISO 8041. The seat pad incorporates a removable triaxial accelerometer with 5000mV full scale output. The model G71AT is designed for low frequency measurements with a measurement resolution of <1mg. A flexible cable is includes with three BNC connectors for simple interface.
The accelerometer uses shear piezo electronical element which provides a wide operating frequency range. The IEPE sensor combines outstanding crystals and low noise integral microelectronics to 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:

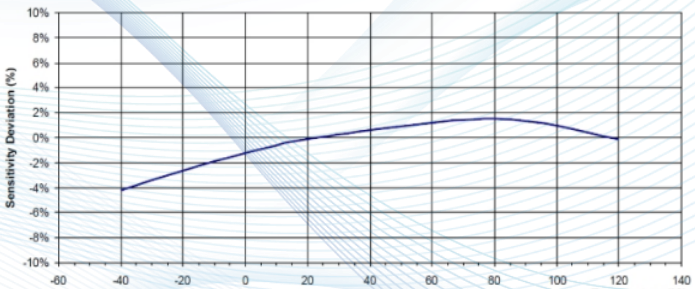
- High frequency response
- 50g full scale
- Stable voltage output
- 5K g shock survivability
- Plug and play configuration



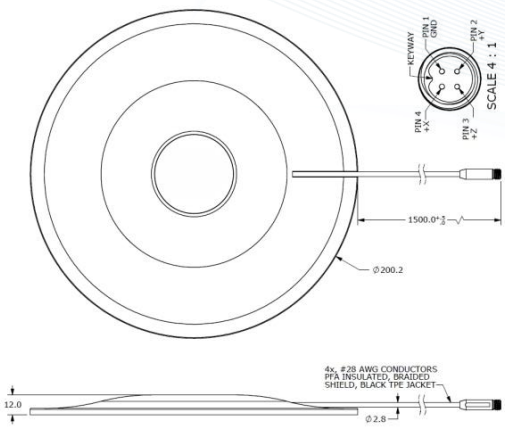
Typical Frequency Response

Application :

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



Typical Temperature Response



Specification：

Dynamic performance	Unit	
Measurement Range	g	50
Sensitivity ±10%	mV/g	100
Frequency Range ±5%	Hz	0.5 ~ 5000
Frequency Range ±10%	Hz	0.3 ~ 8000
Resonant Frequency	kHz	42
Transverse Sensitivity	%	<5
Non-Linearity	% FSO	±1
Shock Limit	g	5000
Environmental parameters		
Temperature response -55 ~ +125°C	%/℃	±10
Operating and Storage Temperature	°C	-55~85
Bias Voltage (Room Temp.)	Vdc	8 ~ 12
Bias Voltage (-50~125) °C	Vdc	6 ~ 13
Electrical characteristics		
Output Impedance	Ω	< 100
Full Scale Output Voltage	V	±5
Insulation Resistance	MΩ	> 100
Supply Voltage	Vdc	18 ~ 30
Supply Current	mA	2 ~ 10
Physical properties		
Weight(W/O cable)	Grams	380
Sensing Element	IEPE	
Case Material	Anodized aluminum	
Humidity	Metal Welding Seals	
Pad material	Nitrile Rubber	

Random accessory		
AM003	3 channels IEPE signal conditioner	Optional
AM004	Portable vibration analyzer	Optional
AM005	8 channels data acquisition system	Optional

Optional cables		
13	Triaxial Acceleration Low Noise Cable with 4-Pin Connector on 3*BNC Header	Optional

规格参数：

G71AT	GGGG	ZZZ
Range 0050=50g		
		A=IEPE output E=IEPE output with TEDS

E.G:

G71AT-50

Model G71AT, 0050, Connector, No Options

G71AT-50A

Model G71AT, 0050, Connector, IEPE

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)

中国大陆
西安鑫源宇通电子科技有限公司
陕西省西安市高新区锦业路70号航天恒星园区1号厂房一层南
Tel: 400-780-9688
sales@senstechxyz.com

中国香港
深大实业有限公司
香港新界沙田安平街6号新贸易中心B座13楼06室
Tel:+86 17792099916
info@caltropinstruments.com

新加坡
深大实业有限公司
香港新界沙田安平街6号新贸易中心B座13楼06室
Tel:+86 17792099919
info@senstechxyz.com