

For vibration isolation seismometer application Servo Accelerometer

TA-25J

General

The new TA-25J Series servo accelerometer offers improved reduction in self-noise compared to the current model.

With a redesigned electrical circuit and enhancements in performance, this cost-effective servo accelerometer is ideal for seismic observation and vibration measurement.

The TA-25J servo accelerometer maintains the compact & light weight configuration and excellent wide measurement frequency range resolution and high accuracy associated with the TA-25 Series.

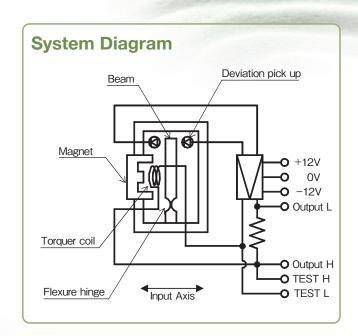
Applications

- Seismic observation
- Vibration and micro vibration measurement
- Vibration isolation

Features

- 1) Frictionless flexure hinge insures stability with no mechanical wear.
- 2) Good linearity and resolution.
- 3) Easy signal processing with high output voltage.
- 4) Simple, robust, and reliable construction.





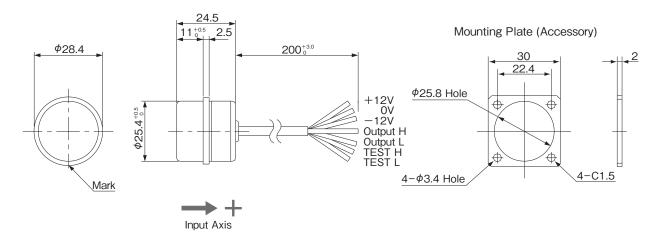
TOKYO KEIKI INC.

Specifications

Model	TA-25J-05-30	TA-25J-02-1
Measurement range	$\pm 39.24 \text{m/s}^2 [\pm 4 \text{G}]$	$\pm 18.62 \text{m/s}^2 \ [\pm 1.9 \text{G}]$
Resolution	$9.8 \times 10^{-6} \text{m/s}^2 \text{ (DC) or less } [1 \mu\text{G}]$	
Self-noise (@1~45Hz)	$2.0 \times 10^{-6} \text{m/s}^2 / \sqrt{\text{Hz}} [2.0 \times 10^{-7} \text{G} / \sqrt{\text{Hz}}] \text{ Typ.}$	
Linearity	±0.1%F.S or less	
Output sensitivity	$0.194V/(m/s^2) [1.9V/G] \pm 5\%$	$0.510V/(m/s^2)$ [5.0V/G] ±5%
Cross-talk	1 % or less	
Frequency response	450Hz (±3dB)	
Bias	± 0.5 m/s ² or less	
Bias temperature coefficient	$\pm 2.94 \times 10^{-3}$ m/s ² /°C or less	
Temperature range	-20~+70°C (Storage -40~+80°C)	
Vibration	Function OK under following frequency, direction and duration conditions: 33.3Hz frequency;68.6m/s2 oscillating acceleration applied in X direction for 2 hr, Y direction for 2h, and Z direction for 4h (conforms to JIS A 8101)	
Shock	980m/s² 6ms	
Power supply	±12VDC~±13VDC	±15VDC~±16VDC
Power consumption	±25mA or Less	
Dimensions	φ28.4×24.5mm	
Mass	46g (including cable 10g)	

Dimensions

unit: mm



Design and specifications are subject to change without prior notice, and without any obligation on the part of the manufacturer.



Before operating this equipment, you should first throughly read the operator's manual



www.tokyokeiki.jp/e/products/sensor/

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