



Sanlien Technology Corp.

SHAKE SD300

Tri-axial Digital MEMS Accelerometer



SHAKE QD332

Tri-axial Digital Quartz MEMS Accelerometer



Be the frontier of environmental monitoring

www.sanlien.com

Introduction

The **SHAKE SD300** and **SHAKE QD332** are tri-axial MEMS digital accelerometers, with the SHAKE SD300 featuring a MEMS sensor and the SHAKE QD332 equipped with a QUARTZ sensor. Specifically designed for structural health diagnostics (SHD) and vibration monitoring, both models are enclosed in an IP67 waterproof casing, enabling deployment in challenging outdoor environments. With enhanced CPU capabilities, the SHAKE SD300/QD332 excels in processing real-time data streams.

Multiple SHAKE SD300/QD332 units can be connected to a PX01/CUBE, a data logger facilitating real-time data recording and event forwarding. Alternatively, users can utilize the SanDAS software on a PC/laptop for waveform viewing and data recording. The algorithms within the PX01/CUBE provide immediate structural stiffness or drift ratio values, crucial for assessing structure safety post-earthquakes. SanDAS offers post-event analysis modules. The configuration of SHAKE SD300/QD332 is easily accessible through its web interface. With a user-friendly plug-and-play feature, the SHAKE SD300/QD332 serves as a flexible digital accelerometer, elevating risk management in structures, monitoring early-stage fatigues, and ensuring the safety of residents and commuters.



Key Features



Built-in Web GUI



Time Synchronization
via NTP



Support Ethernet
PoE for Plug-n-play



Waterproof IP67



SanDAS Software
for Data Analysis



Ideal for Building or
Bridge Monitoring

Applications

- ✓ Structural Health Monitoring (SHM)
- ✓ Cable-stayed Bridge Monitoring

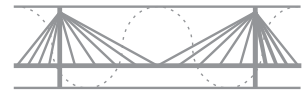
Best Suited



Structural Monitoring



Vibration Monitoring



Infrastructure Life-cycle Assessment

Specifications

	SHAKE SD300	SHAKE QD332
Sensor Type	Tri-axial digital MEMS accelerometer	Tri-axial digital Quartz MEMS accelerometer
Measuring Range	$\pm 2\text{ g}$, $\pm 4\text{ g}$ (factory configured)	$\pm 2\text{ g}$, $\pm 4\text{ g}$ (factory configured)
Dynamic Range	100 dB	132 dB
Sample Rate	100 SPS, 200 SPS, 500 SPS, 1000 SPS	100 SPS, 200 SPS, 500 SPS, 1000 SPS
Self-Noise	$22.5\text{ }\mu\text{g} / \sqrt{\text{Hz}}$	$0.5\text{ }\mu\text{g} / \sqrt{\text{Hz}}$
Shock Resistance	5000 g (0.1ms)	1000 g (0.2 ms)
Digital Resolution	24 bit	24 bit
Communications	RJ-45 PoE	RJ-45 PoE
LED Display	Power, status, link	Power, status, link
Mount Mode	Horizontal / vertical (adjustable with PX01)	Horizontal / vertical (adjustable with PX01)
System Configuration	Via web interface	Via web interface

*All prices, features, and specifications are subject to change without prior notice.

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Sanlien Technology is committed to making environments safe for humans. Hence, we insist on continuing R&D investments, perfecting our manufacturing of monitoring systems, and expanding into Smart City and IoT monitoring. With more than 1,000 local and international customers, Sanlien is trusted by global customers with high standards. By working with renowned agents around the world, we ensure the optimal performance and reliability of our services. With 50 years of profound experience in Taiwan, Sanlien has become the most exceptional provider of measuring technologies in the Asia-Pacific region. Sanlien has conceptualized the idea of being a global partner into a three-in-one strategy: long-term deployment of globalization, integration of local resources, and localized operations. We shall march on step by step with the stamina for running a marathon.

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