



Be the frontier of environmental monitoring

SHAKE  
**SS300**

SEISMIC SWITCH



Introduction


SHAKE SS300 is an advanced seismic switch with a tri-axial MEMS accelerometer to help with earthquake disaster mitigation. The unit has three sets of fully isolated mechanical relays. Using Modbus RTU communication, the device can be connected to other systems to activate emergency processes in the event of an earthquake.

Equipped with a 100dB MEMS accelerometer and flash to store the last earthquake information, SHAKE SS300 two sets of DI inputs make set-up and use simple.


The sampling rate of SHAKE SS300 is fixed at 200 SPS to ensure accurate data. Along with the low-pass filter, artificial vibration noise can be effectively filtered out. The dynamic offset allows SHAKE SS300 to be installed on the ground or wall. The three sets of relay can be activated through different settings, such as PGA 、PGV and seismic intensity scales, including MMI 、KMA 、 JMA 、GBT and CWB standards. Users can also monitor, test or reset relays through Modbus RTU.




Features




Support International Standard of Intensity Scale



Modbus Protocol



Dynamic Offset



Datalogger with LCD Display of Real-time Parameters

Best Suited



Seismic Hazard Control



Emergency Shutdown

Applications

- Safety Switch for Elevators
- Automatic Shutdown of Gas Valves or Pipelines
- Earthquake Protection of Production Lines

Technical Specifications

Sensor Type	: Tri-axial Accelerometer	Communications	: Modbus RTU(RS-485)
Measuring Range	: $\pm 2$ g	Number of Relays	: 3 (Form A / Form B)
Sample Rate	: 200 SPS	Relay Active Mode	: PGA 、PGV 、 Seismic Intensity Scale
Frequency Response	: 0.1 ~ 20 Hz	Contact Rating	: 0.3A@60 VDC
S/N Ratio	: 22.5 ug / Hz <sup>0.5</sup>	Event Reset	: Auto / Manual
Shock Resistance	: 5000g 0.5ms	Voltage	: 10 ~ 26 VDC
Digital Resolution	: 16-bit	Power Consumption	: 1W@12 VDC
Trigger Algorithm	: PGA 、PGV 、 STA / LTA	Operating Temperature	: -10 ~ 60 °C

Physical Properties

Dimension (WxLxH)	: 153 x 117 x 54 mm	Weight	: 750 g
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\*All features and specifications are subject to change without prior notice.



Sanlien Technology is committed to making environments safe for humans. Hence, we insist on continuing R&D investment, perfecting our manufacture 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 optimal performance and reliability of our services. Sanlien has conceptualized the idea of being a glocal 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.