

# SHAKE SS300

## SEISMIC SWITCH

sanlien

Be the frontier of environmental monitoring

### 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
Measuring Range	: $\pm 2$ g
Sample Rate	: 200 SPS
Frequency Response	: 0.1 ~ 20 Hz
S/N Ratio	: $22.5 \mu\text{g} / \text{Hz}^{0.5}$
Shock Resistance	: 5000g 0.5ms
Digital Resolution	: 16-bit
Trigger Algorithm	: PGA、PGV、STA / LTA

Communications	: Modbus RTU(RS-485)
Number of Relays	: 3 (Form A / Form B)
Relay Active Mode	: PGA、PGV、Seismic Intensity Scale
Contact Rating	: 0.3A@60 VDC
Event Reset	: Auto / Manual
Voltage	: 10 ~ 26 VDC
Power Consumption	: 1W@12 VDC
Operating Temperature	: -10 ~ 60 °C

### Physical Properties

Dimension (WxLxH) : 153 x 117 x 54 mm

Weight : 750 g

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