

"Detects the occurrence of earthquakes and protects important equipment!"

Prevents the risk of secondary disasters

Vibration detector MODEL-2702 for the earthquak



Application example

- For the safe shutdown of plant equipment in the event of an earthquake.
- For protecting important facilities in the event of an earthquake.
- For emergency shut-off of water, sewage, and gas lines.
- For obtaining acceleration data of seismic motion (unit: gal).

- ▶ ***Calculates vibration acceleration by combining three vectors in the X, Y, and Z directions, and outputs it at DC4-20mA.***
- ▶ ***Outputs seismic motion from 0 to 400 Gal. (Reference value: Applicable up to seismic intensity 6)***
- ▶ ***When combined with a digital monitor (optional), an alarm relay can be output.***
- ▶ ***Can switch between real time and peak-hold output.***
- ▶ ***Can be installed outdoors because it is waterproof (IP65 equivalent).***

Features

- The DC4-20mA output allows direct connection to an indicating instrument or sequence circuit.
- A simple seismic monitoring system can be constructed by connecting to the digital monitor MODEL-2590C (optional).
- The frequency range is set to a band that is sensitive to seismic motion.
- Comes with a 5m pigtail cable. (Can extend up to 100m)
- Because it is capable of combining vectors from a three-directional acceleration sensor and outputting the resultant vector, this detector accurately captures seismic motion.

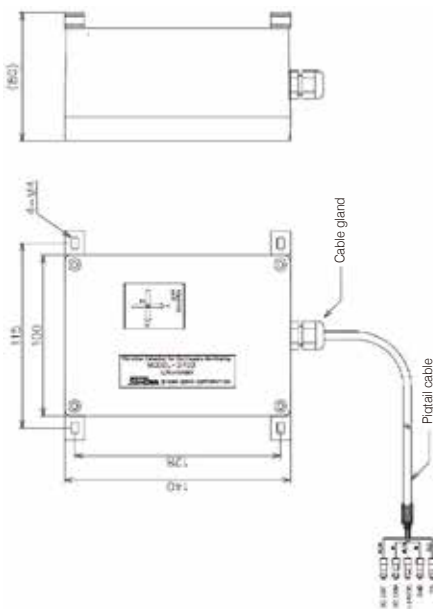
Correspondence between seismic intensity and acceleration (gal)

Although seismic intensity does not strictly correspond to acceleration (gal), the general correspondence is as shown in the table on the right.

Seismic intensity scale	Maximum peak ground acceleration (gal)
Seismic intensity 4	approx. 40 to 110
Seismic intensity 5 Lower	approx. 110 to 240
Seismic intensity 5 Upper	approx. 240 to 520
Seismic intensity 6 Lower	approx. 520 to 830
Seismic intensity 6 Upper	approx. 830 to 1500



External view



Specifications

Detector	3-axis acceleration sensor Sensitivity: 300mV/(9.8m/s ²)
Measurement range	0~400gal
Frequency range	0.25Hz~2Hz
Filter	HPF: 0.25Hz (-3dB±0.5dB) LPF: 2Hz (-3dB±0.5dB) Attenuation characteristic: -6dB/OCT
Output format	Real time output: Outputs detected vibration values in real time. Peak hold output: Outputs peak values within a set time period. (Can be set from 1 to 10 seconds)
Output	DC4-20mA/0-400gal
Power supply	24VDC, 1A or less
Temperature and humidity range	0 to 70°C, 45 to 85%RH without condensation
Structure	Die-cast aluminum, IP65
External dimensions and weight	Refer to the external view, approximately 1kg (main unit)
Cable	Standard: 5m pigtail cable (optional specification available), terminal-crimping terminal

Option: Digital monitor MODEL-2590C



Input	DC4-20mA
Power supply for driving detector	DC24V, 100mA max
Alarm settings	H, HH settings available Automatic recovery/self-holding selection available
Alarm relay	2 x C contact Rated voltage and current: 250VAC, 5A and 30VDC, 5A
Power supply	85 to 264VAC, 15VA or less
External dimensions and weight	96 (W) x 48 (H) x 92 (D) mm, approximately 300g.
Analog output	DC4-20mA

Seismic monitoring instrument system configuration

Vibration detector for earthquake monitoring : MODEL-2702

Digital monitor : MODEL-2590C-A11

A combination of these enables the construction of a seismic monitoring instrument capable of issuing a two-stage alarm. This system is ideal for equipment that requires safe shutdown without human intervention in the event of an earthquake.

SHOWA SOKKI Corporation

Head Office / 1-5-9 Kandaizumi-cho, Chiyoda-ku, Tokyo 101-0024

Tel: 03-3866-3210 (Main) Fax: 03-3866-3060

Osaka Branch / 6F East, 1-7-14 Hirano-machi, Chuo-ku, Osaka-shi, Osaka 541-0045

Tel: 06-6205-5070 (Main) Fax: 06-6125-5111

Factory / 3-16-2 Sennin-cho, Hachioji-shi, Tokyo 193-0835

Tel: 042-664-3232 (Main) Fax: 042-664-3276

URL / <http://www.showasokki.co.jp/>

MAIL : eigyo@showasokki.co.jp

Distributor

※Please note that the specifications and designs described in this catalog are subject to change without notice due to product improvements.
24123H (FM)