

SES60

Intelligent Earthquake Sensor



The SES60 Intelligent Earthquake Sensor is a detector capable of estimating the damages that are inflicted by seismic movement.

Using the output from the built-in accelerometer, the SES60 calculates the SI value, which corresponds to the measured seismic intensity, and the maximum synthetic acceleration, which it uses to estimate the damage caused by an earthquake. In addition, the sensor judges whether earth liquefaction has occurred on the basis of the acceleration waveform characteristics.

Specifications

Acceleration measuring range	±2000 Gal (X, Y, Z axes)
Measuring resolution	1 Gal by DC acceleration meter
Measuring acceleration frequency (-3dB)	DC-50 Hz (X, Y axes), DC-30 Hz (Z axis)
Acceleration sampling	10ms
Power	12Vdc ± 10% or 24Vdc ± 10%
Power consumption	4W max. (including 4~20mA output), 200mA max.
Seismic sensing output	Relay 1a (contact output)
Liquefaction output	NPN open collector
Serious failure output	NPN open collector
Minor failure output	NPN open collector
4 to 20mA output	2 channel current source Selectable from SI value, synthetic acceleration and Japanese earthquake scale value
Diagnostic input	Photocoupler input current source
RS-485 communications	3-wire type, 19200bps
Waveform recording	120s × 10 waveforms (10ms sampling)
Ambient temperature	-10 to +60°C (no freezing)
Explosion-proof standard	Exd II BT4X (explosion resistant structure)
Water/dust resistance	IP67 (1m under water for 30min.) JIS C 0920 watertight type (excluding metallic cable conduit)
Mass	1.8kg

Selection Guide

Model No.	Description
SES60AV320-1010	Intelligent Earthquake Sensor (standard model)
SES60AV320-101D	Intelligent Earthquake Sensor (with test data)
EST0240Z05WBX00	Touch panel
ESTX220SIAJC002	Earthquake sensor package software

Accessories (sold separately)

Model No.	Description
SLP-SE6J50	PC Loader software (FD)
81446431-001	Battery for replacement

SENSORS

Dimensions (Unit: mm)

