SEISODIN

WE MAKE STRONG MOTION ACCELEROGRAPHS

Seismic Building Monitoring

Earthquake monitoring for buildings

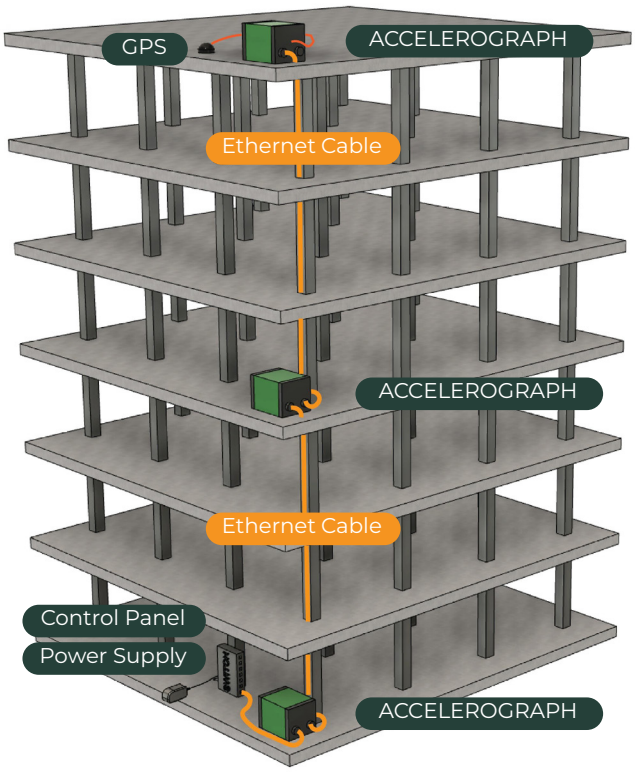
www.seisodin.com

Seisodin Seismic Building Monitoring

Seismic Building Monitoring

Earthquakes may cause visible and hidden damage to buildings. Following an earthquake, it is crucial for a building owner to check the condition of the structure to best ensure the safety of residents or workers.

Seisodin's Seismic Building Monitoring System allows building owners and operators to instantly inspect the impact of an earthquake on a structure. Depending on the building's size and shape between 1 and 10 seismic accelerographs are placed at strategic points in the building. They will automatically detect and record the earthquake, and possible amplifications of the vibration in the building. The sensors may be paired with a control panel, which allows instant viewing of the recorded vibrations and calculation of the earthquake intensity measured by each sensor.



FEATURES

- Very low cost of ownership
- Minimal maintenance (10yr calibration-free)
- Easy to use and simple to install
- Control Panel with 10" touch display
- Integrated relays for alarm activation
- Affordable cabling with CAT5E ethernet
- One single cable for everything
- Single point of power for entire system
- Built-in UPS (backup battery)
- Synchronized sampling accuracy to 40 nanoseconds thanks to PTP
- Seismic Event reports with earthquake intensity in MMI or PEIS seismic scales

OPTIONAL FEATURES

- Cloud system for data and reports
- 4G modem
- Siren

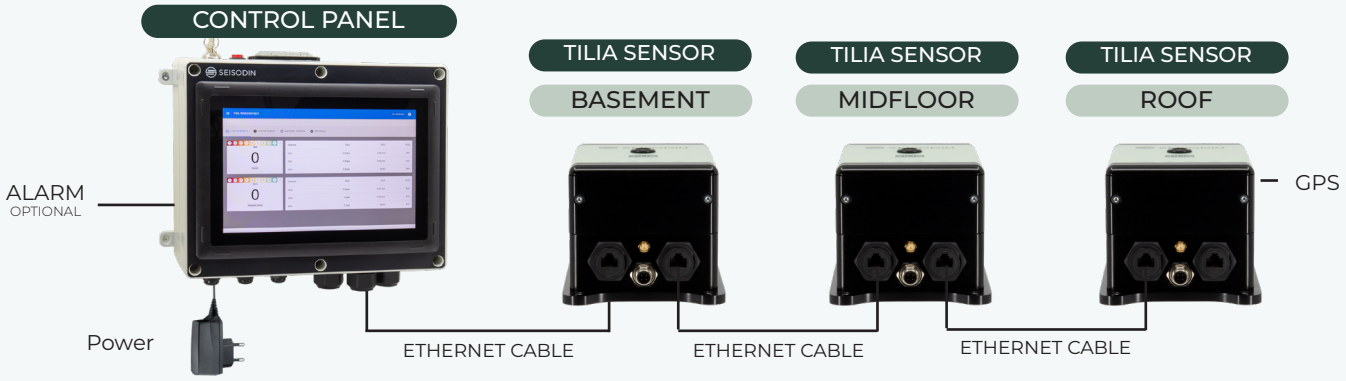
SEISODIN

Turn-key Seismic Solutions

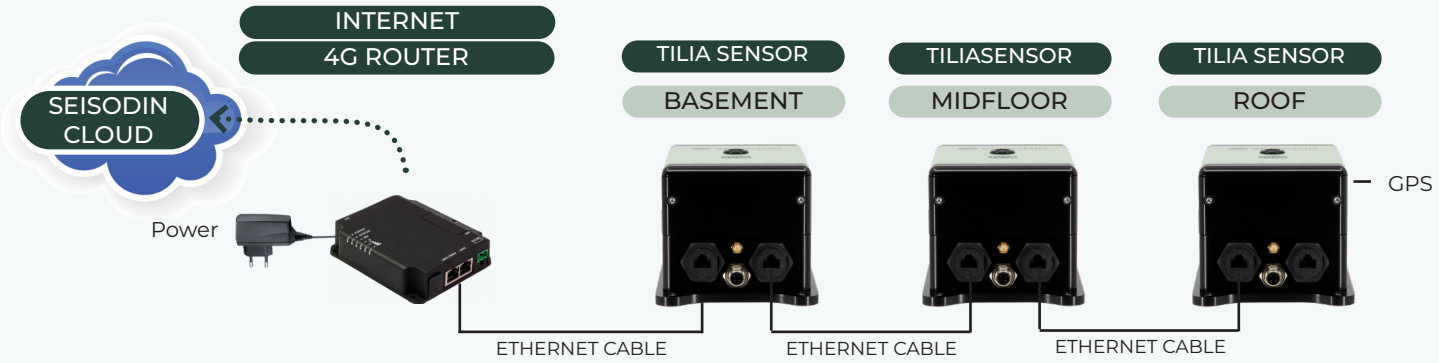
Seisodin offers both standard and customized systems for seismic monitoring of all types of buildings. The number of sensors required in a building depends on the size and shape of the building, and in some countries, the number of sensors is defined by local regulations. The most common scenario is to have either 1 or 3 sensors installed.

The connection diagrams below show the most common installation types. They may be customized with more or fewer sensors.

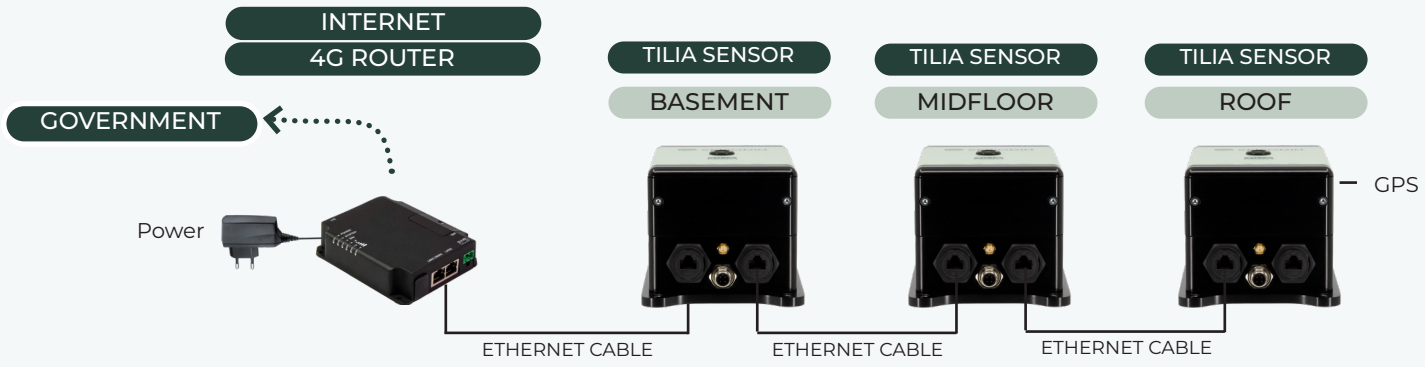
MULTIPLE INSTRUMENTS - WITH DISPLAY CONNECTION DIAGRAM



MULTIPLE INSTRUMENTS - WITH CLOUD CONNECTION DIAGRAM



MULTIPLE INSTRUMENTS - GOVERNMENT SERVER CONNECTION DIAGRAM



SEISODIN

Tested, Certified and Approved

Seismic Qualification
IEC 60068-3-3 Seismic Zone 4
ACCREDITED TEST REPORT AVAILABLE

PERÚ | Ministerio del Ambiente | Instituto Geofísico del Perú | Presidencia Ejecutiva

IGP Instituto Geofísico del Perú

"Decenio de la Igualdad de oportunidades para mujeres y hombres"
"Año del Bicentenario, de la consolidación de nuestra Independencia, y de la conmemoración de las heroicas batallas de Junín y Ayacucho"

CARTA N°00025-2024-IGP/PE

Lima, 24 de Abril del 2024

Señora
Melva Collantes Gómez
Gerente General
Empresa TERRASENSOR S.A.C.
Presente

Referencia: Solicitud S/N de fecha: 05/02/2024 Expediente 02026-2024

Me es grato hacerle llegar un cordial saludo y en atención a su documento de la referencia, comunicarle que, personal de la Unidad de Ingeniería de la Subdirección de Redes Geofísicas del Instituto Geofísico del Perú, ha efectuado la evaluación de los equipos acelerométricos presentados por su despacho para revisión de las especificaciones técnicas en cumplimiento con lo dispuesto en el Reglamento Nacional de Edificaciones, Norma Técnica E.030, los cuales corresponden a los modelos: TILIA T100 y TILIA T130.

De la evaluación efectuada, el resultado indica que los 02 modelos presentados, cumplen los aspectos correspondientes a los equipos de registro acelerométrico, según lo establecido por el Instituto Geofísico del Perú - IGP, para la implementación de estaciones acelerométricas requeridas por la Norma Técnica E.030 "Diseño Sismorresistente", según el INFORME N°0034-2024-IGP/DC-RGE, del Director de la Subdirección de Redes Geofísicas, del Instituto Geofísico del Perú.

Cabe precisar que los presentes equipos revisados al igual que otras marcas de acelerómetros triaxiales validados, cumplen con las normativas vigentes y recordar que el documento emitido por el IGP es estrictamente a modo de respuesta, por lo que no debe usarse como medio publicitario.

Agradecido por su atención, hago propicia la oportunidad para expresarle mis sinceras muestras de consideración.

Muy atentamente,

IGP

Dr. Hernando Tavera
Presidente Ejecutivo

HTH/jlb.
Esta es una copia auténtica imprimible de un documento electrónico archivado en el Instituto Geofísico del Perú, aplicando lo dispuesto por el Art. 25 de D.S. 070-2013-PCM y la tercera Disposición complementaria Final del D.S. 026-2016-PCM. Su autenticidad e integridad pueden ser contrastadas a través de la siguiente dirección web: http://www.igp.gob.pe/std/verificardocumento e ingresando la siguiente clave: B834F8D

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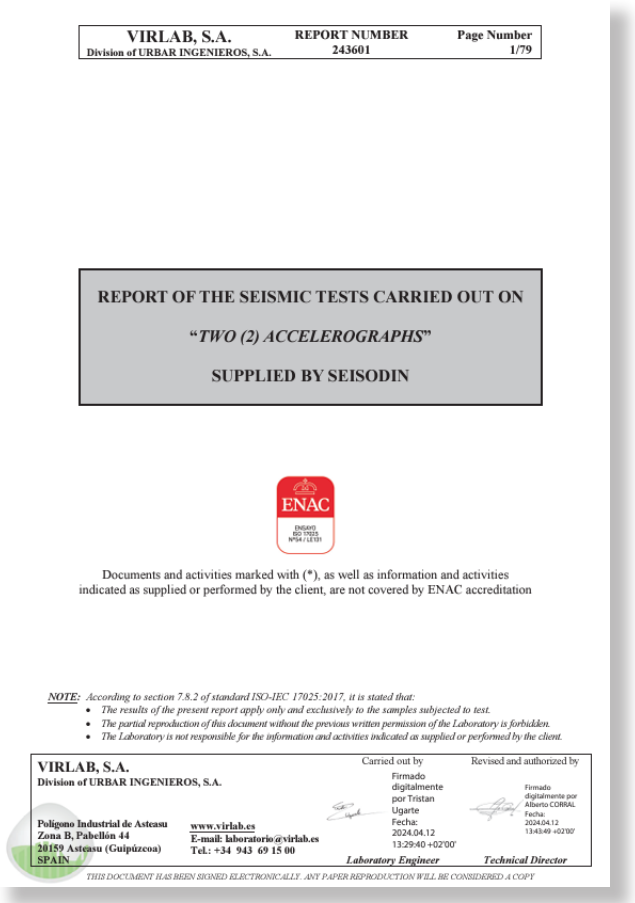

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REPORT OF THE SEISMIC TESTS CARRIED OUT ON

"TWO (2) ACCELEROGRAPHS"

SUPPLIED BY SEISODIN

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Seisodin Tilia Accelerographs are fully seismically tested according to international standard IEC 60068-3-3 and have been qualified for use in seismic zone 4, making it sutiable for use in even the most active seismic regions in the world.

Additionally, the instruments have been tested and approved by national agencies around the world.

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