



ACCELEROGRAPHS

### Mandatory Installation of Earthquake Recorders for Buildings

| Type of Building  | Number and Location of Sensors  |
|---|---|
| <b>Government Buildings</b>   |   |
| A. Hospitals, schools and other buildings above fifty (50) meters in height   | At least 3 accelerographs located at (1) Ground Floor / Lowest Basement, (2) Middle Floor, and (3) Floor below Roof |
| B. Hospitals with fifty (50)-bed capacity or more and schools with twenty (20) classrooms or more but not less than three (3) storeys | One Accelerograph installed at Ground Floor / Lowest basement   |
| C. Provincial/City/Municipal Halls and Buildings  | One Accelerograph installed at Ground Floor / Lowest basement   |
| <b>Private Buildings</b>  |   |
| A. Buildings above fifty (50) meters in height  | At least 3 accelerographs located at (1) Ground Floor / Lowest Basement, (2) Middle Floor, and (3) Floor below Roof |
| B. Hospitals with fifty (50)-bed capacity or more and schools with twenty (20) classrooms or more but not less than 3 storeys         | One Accelerograph installed at Ground Floor / Lowest basement   |
| C. Commercial buildings with occupancy of at least 1,000 persons or gross floor area of at least 10,000 square meters                 | One Accelerograph installed at Ground Floor / Lowest basement   |
| D. Industrial buildings with occupancy of at least 1,000 persons and gross floor area of at least 10,000 square meters                | One Accelerograph installed at Ground Floor / Lowest basement   |

### Individual Components of DPWH Compliant Earthquake Monitoring System



#### Tilia T100P

State-of-the-art networked seismic strong motion accelerograph with 250Hz bandwidth and a dynamic range of 100dB. The instrument integrates sensors and digitizers in the same box, greatly lowering system complexity. Instruments have double ethernet interface to allow daisy chaining multiple accelerographs in large structures. Includes GPS and Integrated relays.



#### Tilia Control Panel (PH Version)

Control panel for use with Tilia instruments in DPWH compliant projects in the Philippines. The panel contains 10" industrial PC, power supplies for Tilia, UPS and interface for activating a siren and alarm light (requires alarm relay option). The Tilia Control Panel includes software required for retrieval and analysis of seismic data, and can display live parameters and seismic intensity scales.



#### Siren

105dB Alarm siren suitable for integration with Tilia Dam Control Panel and Tilia's optional alarm relay system.

Seisodin Aps, Lindhovedvej 33C, 5631 Ebberup, Denmark

Phone: +45 93 83 87 09

info@seisodin.com

www.seisodin.com

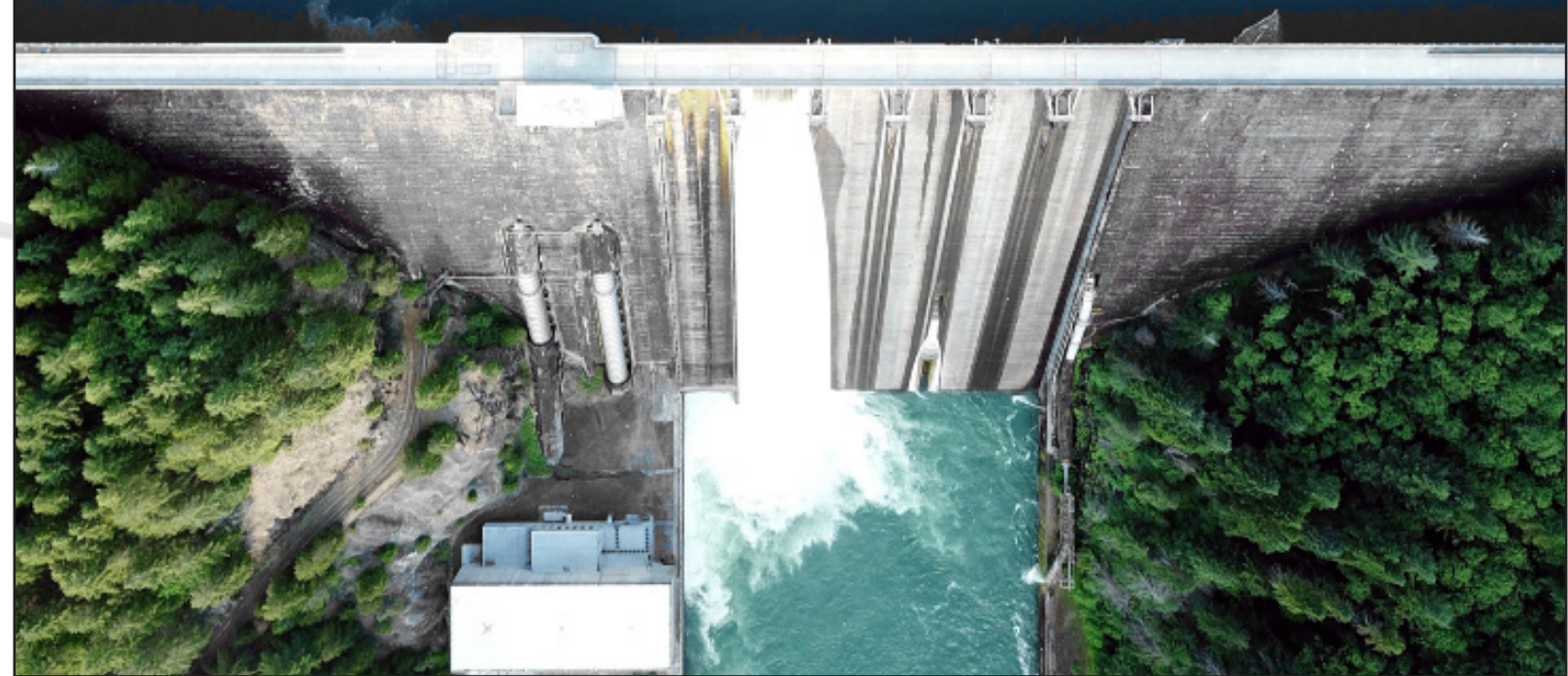


# SEISODIN

WE MAKE STRONG MOTION ACCELEROGRAPHS

## DPWH Compliant Earthquake Recording Instrument

Seismic Accelerograph Solution for The Philippines



# Tilia Earthquake Recording Instrument

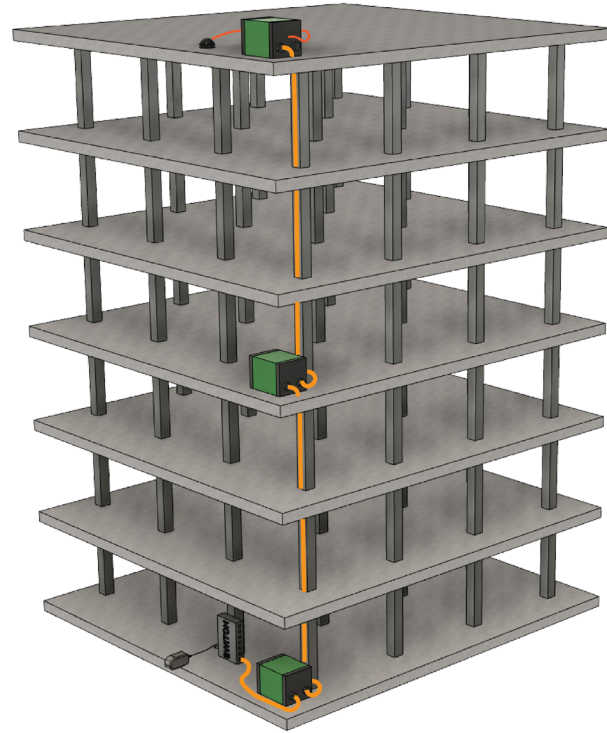
Zone 4 Seismically Qualified Accelerograph Solution for The Philippines

**TILIA**  
SERIES

**Seisodin** proudly presents the T100P Earthquake Recording Instrument (ERI) tailored for the Philippine market. The system is fully compliant with the strict *2015 DPWH Guidelines and Implementing Rules on Earthquake Recording Instrumentation for Buildings*, including a thorough seismic qualification by an accredited seismic test laboratory.

## Turn-key Solution

Seisodin offers a full, easy-to-use solution including a control panel with live data, intensity scale and other relevant earthquake parameters, as well as audible and visual alarms, and the option to connect the system to an existing FDAS system. The solution uses a single-cable ethernet daisy chain concept for easy installation and can be delivered with between 1 and 10 sensors, making it suitable for both small and large buildings.



## Seismic Qualification IEC 60068-3-3 Seismic Zone 4

ACCREDITED TEST REPORT AVAILABLE



## SPECIFICATIONS

### Tilia T100P

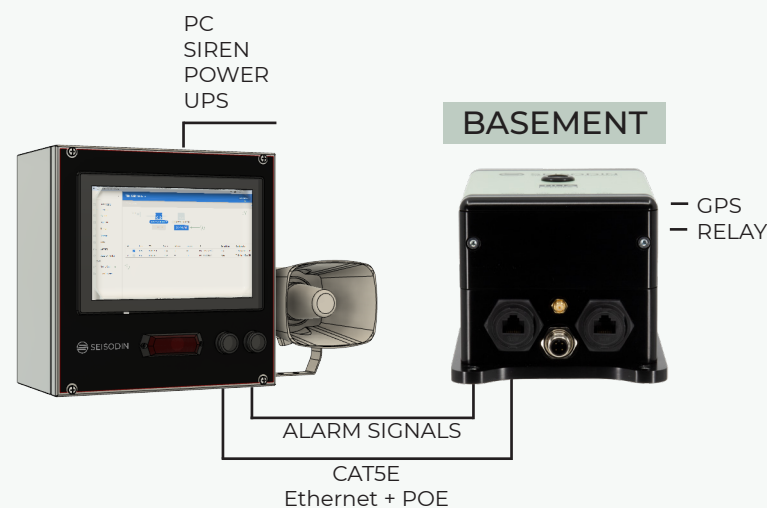
The Seisodin Tilia T100P is a highly integrated Earthquake Recording Instrument (also called ERI), tailored for precision seismic monitoring of buildings. The T100P is an enhanced version of the T100, designed to be fully compliant with the strict 2015 DPWH requirements for the Philippines. Multiple instruments can be daisy chained thanks to the integrated double ethernet interface, ensuring simple cabling and ultra precise synchronization using GPS and PTP in larger structures. Tilia T100P is seismically qualified for seismic zone 4 according to IEC 60068-3-3 and is tested by an accredited laboratory.

Seismic Qualification:  
Dynamic Range:  
Noise:  
Fullscale:  
Time:  
Power:  
Battery:  
Connection:  
Environment:  
Configuration:  
Storage:  
Connectivity:

### Tilia T100P

60068-3-3 Zone 4 (cert.)  
100dB  
40ug (0-30Hz)  
2 or 4g  
GPS, PTP, NTP  
12-60V  
18650 and / or 12V Lead  
Daisy Chained Ethernet  
IP67  
Web Interface  
32GB microSD  
FTP, Seisodin Cloud

## Connection Diagram (single instrument)



## Connection Diagram (multiple instruments)

