

**TILIA**  
SERIES



## TILIA T100

The Seisodin Tilia T100 is a highly integrated Strong Motion Accelerograph, tailored for precision structural and civil monitoring applications. The instruments provide ultra precise measurements using a state-of-the-art MEMS accelerometer and 20-bit digitizers, all while being highly reliable and extremely easy to use.

The Tilia T100 comes with dual ethernet transceivers integrated directly in the instrument for up to 100m distance between daisy-chained devices. The integrated UPS in every instrument ensures continuous recording during power outages and cable breakages ensuring that data is never lost. The integrated ethernet transceivers support power-over-ethernet (PoE) enabling one instrument to provide power to the next one in the daisy chain, directly through the ethernet cable. This concept ensures highly cost-effective wiring. Tilia accelerographs rely on a hardware-backed phase-locked PTP integration, which ensures precise timing between instruments with industry-leading offsets between sensors as low as 40 nano-seconds!

### Key Specifications

- 3 x MEMS Accelerometers
- $\pm 4g$ ,  $\pm 2g$
- 105dB, 90dB @ 50Hz, 100dB @ 10Hz
- 250 Hz bandwidth
- 20-bit ADC's
- Daisy-chain topology
- 40ns timing precision
- Simultaneous Sampling
- Hardware backed PTP
- Power over Ethernet (PoE)
- Integrated UPS w. removable battery
- micro-SD + USB
- Optional Fiber optical transceivers built-in
- Optional MIL-spec connectors



2 x RJ45



2 x FIBER OPTIC



1 x RJ45 + 1 x FIBER OPTIC

### Applications

#### Structural Health Monitoring

Dams, Highrise Buildings, Bridges, Tunnels, Railways, Monuments and historic buildings, Schools, Hospitals, Government buildings, Airports, Factories, Stadiums and sports fields



# SEISODIN

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