



TILIA T100F

The Seisodin Tilia T100F is a highly integrated Strong Motion Accelerograph, tailored for precision structural and civil monitoring applications. The instrument provides 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 T100F comes with dual fiber optical ethernet transceivers integrated directly in the instrument for up to 2km or 20km (12mi) 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. Tilia accelerographs provide extremely precise timing. The system relies on a hardware-backed phase-locked PTP integration, which ensures industry-leading offsets between daisy chained devices as low as 40 nano-seconds!

The Tilia T130F is ideal for projects like dams, bridges, tunnels and railways where long distances between sensor nodes is required.

Key Specifications

- 3 x MEMS Accelerometers
- $\pm 4g, \pm 2g$
- 105dB, 90dB @ 50Hz, 100dB @ 10Hz
- 250Hz bandwidth
- 20-bit ADC's
- 2 x Built-in Fiber Optical Ethernet
- Up to 2 or 20km between instruments
- Daisy-chain topology
- 40ns timing precision
- Simultaneous Sampling
- Hardware backed PTP (IEEE 1588)
- Power over Ethernet (IEEE 802.3)
- Integrated UPS w. removable battery
- micro-SD + USB



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



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