Seisodin Tilia T100P

TILIA SERIES

Statement of Compliance with DPWH Requirements

17th January 2024

To whom it may concern,

We, Seisodin ApS, whose offices are located in Ebberup, Denmark, hereby confirm and certify to have reviewed the 2015 DPWH Guidelines and Implementing Rules on Earthquake Instrumentation for buildings and verified that the Seisodin Tilia seismic accelerograph (ERI) complies and exceeds the minimum technical requirements.

Compliance Check Sheet for Seisodin Tilia T00P

Parameter	**Requirement by DPWH**	**Tilia T100P**
Seismic qualified	Tested by recognized international testing laboratory	Yes - Seismically Qualified for Seismic Zone 4 according to 60068-3-3 by accredited test laboratory. Test report available.
Stores seismic activity	Yes	Yes
Equipped with fault detection	Yes	Yes - LED's and Control Panel
Real-time Alarm Info	Audio, Visual or both	Yes - Audio and Visual
Internal Battery Backup	Yes	Yes - Up to 12 hours or more
Design life	10 years	10 years
MTBF	40,000 hours	100,000 hours
Sensitive axis	Minimum 3 components (vertical, longitudinal and transverse)	3 orthogonal axis (X,Y,Z)
Natural Damping Frequency	Above 50hz	Above 200Hz
Damping	60-70 percent critical	70 percent
Sensitivity	2g	2g or 4g available
Bandwidth	DC to 100Hz	DC to 200Hz
Environment	IP 67	IP 67
Recording		
Sampling Frequency	Minimum 100 samples per second	50, 100, 200, 250, 500, 1000 samples per second (user selectable)
Time	From at least 20 seconds before the ground shaking begins until 30 seconds after the last triggering level motion	Yes - user selectable from 120 seconds before to 180 seconds after.
RMS Noise	<40 ug over 0-30Hz	<40 ug over 0-30Hz
Media	Memory Card	Memory Card (micro-SD)
Continous Recording	Capable of continous recording	Continous recording in a ring-buffer structure.
AD Converter	16 bits	24 bits
Timing		
Interval	Half a second or less	Yes. +/-10usec after GPS fix. 40nsec synchronization between daisy chained devices.
Accuracy	Plus or minus 0.2 second per 100 seconds	Yes
Type	GPS or NTP sever	GPS, PTP or NTP
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(continued) Compliance Check Sheet for Seisodin Tilia T00P

Parameter	Requirement by DPWH	Tilia T100P
Triggering		
Method	Pendulum or other device using earthquake motion as an exciting force	MEMS Accelerometers
Level	0.5 to 100 gals	0.0001g to 4g
Time	Full operation of accelerograph/velocity in not over 0.1 second after activation.	Yes, continuous recording
Power		
Battery	Battery maintained by charger	Internal battery maintained by charger
Communication		
Ethernet	10 base –T or 100 base-TX	10 base –T or 100 base-TX
Protocol	TCP/IP FTP/SFTP	TCP/IP, FTP
Additional features		Connection between instruments across multiple floors is easily achieved by using the standard daisy chaining feature.

To comply with the requirements the system must consist of the following parts:
Tilia T100P, 1 x Battery, 1 x Tilia Relay Option, 1 x Tilia Control Panel
Systems for The Philippines are quoted with all of the above items included.

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