#### CONFIDENTIAL

# DPWH COMPLIANT ERI FOR THE PHILIPPINES

# TILIA TIOOP TECHNICAL DATASHEET



# Accelerometer

Number of sensors Sensor Technology Bandwidth Fullscale Range Dynamic Range Noise 3 (tri-axial) MEMS 0-200Hz ±4g, ±2g, others on request 110dB 40ug (0-30Hz)

# Digitizer

Sampling Channels Resolution Sample Rates Anti Aliasing Filter Simultaneous 3 channels 20 bit Sigma-Delta converters 50, 100, 200, 250, 500 Analog and digital

#### Time

Time sources Time Host GNSS, PTP, NTP, RTC Instruments with GNSS receiver can work as PTP master for other instruments in the daisy chain or network. as low as 40ns offset between daisy chained instruments.

Time offset

# **Events & Triggers**

Event Recording Trigger Algorithms Threshold Pre-event period Post-event period Event Recording to miniseed STA/LTA, Threshold, MMI, Time Freely configurable 1-120 seconds 1-180 seconds

## Alarm Output

Relays

2 x NO/NC configurable relays

#### Communication

Configuration Ethernet

Daisy Chaining

Node Spacing

Optional

Web Interface, mobile friendly 10/100 Base-T (2 interfaces) 2nd interface for daisy chain Fully supported. Data, PoE and PTP over ethernet.

100 meters between daisy chained instruments. T100PF with 2 x Fiber Optical Ethernet Transceivers built-in (2km/20km node spacing) Optional External

4G/LTE



## Certifications and tests

Seismic Qualification Local Guidelines 60068-3-3 Seismic Zone 4 DPWH & NSCP 105.2

#### Data, Storage & Servers

Record Types Data Format Removable Memory Data Upload Data Retrieval Events, Ringbuffer Miniseed microSD Card (8GB default) FTP or Seisodin Cloud uSD, FTP, Web Interface

## **Dimensions & Environment**

Dimensions Weight Installation Ingress Protection Material Temperature Humidity

120 x 179 x 104mm 2.0 kg Single-bolt + 3 levelling screws IP67 with mated connectors Anodized Aluminum -20 to +70°C 0-100% RH non-condensing

4 prioritized power sources

Internal Battery

DC: 18-60V (48V nom.)

PoE: 40-57V (48V nom.)

DC supply, PoE, External Battery,

#### Power

Sources

Supply Voltages

Ext Battery: 11-14.5V (12V nom)Int Battery: 3.0-4.2V (3.7V nom.)Power Consumption~1.5W from DC supplyProtectionGroundingGrounding Point on base

# Connectors

Ethernet Power GNSS 2 x RJ45 (optional MIL) 1 x 4p M12 1 x SMA

## **Configuration & Monitoring**

Configuration	Configuration through intuitive and modern web interface. Smartphone friendly interface.
Health Monitoring	Instrument generates state-of- health reports, log files and heart beats.

Specifications subject to change without notice

Contact us today Seisodin ApS Denmark +45 93 83 87 09 www.seisodin.com info@seisodin.com

