SentryS-Lite





Sensor Box with dual-core MCU for sensor and data management integrating GNSS and a high-precision Time Base Unit (TBU) to guarantee accurate synchronization across multiple devices. Continuous, uninterrupted data streaming until 500 sps is allowed.

APPLICATIONS

- Regional and local (e.g. urban networks) seismic monitoring
- Structural health monitoring (SHM)
 of structures characterized by
 significant vibrations

MAIN FEATURES

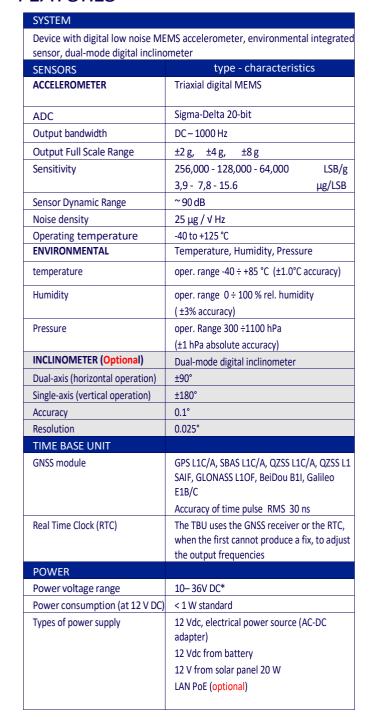
- ACCELEROMETER WITH LOW SELF-NOISE (25 μg/VHZ)
- 20 BIT RESOLUTION
- ADJUSTABLE SAMPLING RATE (100, 200, 400, 500 sps)
- Programmable high- and low- pass digital filter
- FULL-SCALE RANGE ± 2 g, ± 4 g, ± 8 g
- Integrated temperature, humidity, pressure sensor
- Compatible with standard software such as Earthworm, SeisComP and support SEEDLink data transfer
- Ultra-low-latency mode for EEW
- Continuous, periodic, or event-triggered acquisition
- PRECISE SYNCHRONIZATION ACROSS MULTIPLE NODES (< 0.1 ms)
- 128 GB micro SD
- ETHERNET PoE, WIRELESS, 3G-4G (optional) for data transfer and remote monitoring
- OUTPUT DATA FORMAT IN MINISEED or others on request
- 12 Vdc from electrical power source (with ac-dc adapter), BATTERY or SOLAR PANEL (optional)
- STATE-OF-HEALTH monitoring
- System Status LEDs

OPTIONAL

- Single Board Computer
- Bi-axial digital inclinometer (optional)

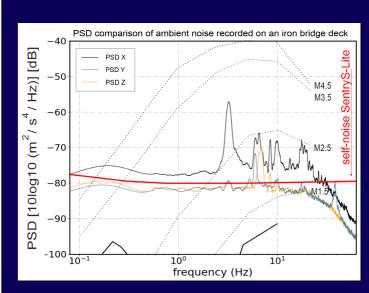
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FEATURES





PHYSICAL	
Standard SentryS-Lite	
Width	120 mm
Depth	90 mm
Height	60 mm
Weight	800 grams
Enclosure/Materials	Hard anodised aluminium
Communication / Connector	Military specification cconnector
Environmental protection	IP67



Self-noise plot of the accelerometer compared to ambient noise measurements on a bridge deck