

INFRA Point

The INFRA system is used to monitor construction activities, blasting, train traffic, road traffic, vibration in buildings etc.

- Data logger and vertical or triaxial vibration sensor
- Up to 12 months of continuous monitoring on internal rechargeable batteries*
- Built-in 4G modem
- OLED color display
- Micro-SD memory card
- Simultaneous bar graph and waveform monitoring
- Watertight (IPX6)
- Digital signal processing
- Post-processing, presentation and remote management in INFRA Net
- GPS ready



INFRA Point Cables

INFRA Point Cable 2 m (6.6 ft)

INFRA Point Cable 5 m (16.4 ft)

INFRA Point Cable 15 m (49.2 ft)

INFRA Point Vertical Geophone

Is a small lightweight vertical geophone that can handle the majority of measurement standards.



INFRA Point Triaxial Geophone

Is a small lightweight triaxial geophone that can handle the majority of measurement standards.



INFRA Point measures according to the following national and international standards:

| | |
|------------------------------|------------|
| SS 4604866 Spräng | 5 – 300 Hz |
| SS 025211 Schakt | 5 – 150 Hz |
| SS 025211 Schakt | 2 – 150 Hz |
| NS 8141:2013 Byggverk | 3 – 400 Hz |
| NS 8141:2001 Byggverk | 5 – 300 Hz |

*) with vertical geophone

Technical Data

DIRECTION OF SENSITIVITY

INFRA Point measures vertical or triaxial vibration.

MEASURING

The unit has built in digital signal processing, which processes all incoming data in real time according to the selected standard. The unit measures maximum values for each interval and at the same time, it records time history data when the vibration level exceeds the user preset threshold.

SAMPLING

The geophone signals are sampled at 4096 Hz using a high resolution A/D converter for a wide dynamic range. When a preset trigger level is exceeded a time history is recorded.

RECORDING

Recording time is up to 40 seconds, with 1 second pre-trig.

POWER SUPPLY

Internal Lithium-Ion batteries that easily can be changed.

MEASURING RANGE

Frequency range 1 Hz – 500 Hz. The geophones have a calibrated sensitivity within +- 2%. Maximum vibration level is 250 mm/s (10 in/sec) dependent on the selected standard.

SENSOR ELEMENT

The sensor elements are rugged high quality velocity sensing geophones with long term stability and wide dynamic range.

IDENTITY

The serial numbers of the unit and important metadata always follows the recorded data. This makes it possible to trace data to a certain unit.

MEMORY

Micro SD industrial memory card. 1 GB in standard configuration.

DATA TRANSFER

All data is buffered on the memory card and is sent when the next cellular communication takes place. If cellular communication is not possible, data is kept for transfer at a later time.

DATA AND SERVICE MESSAGES

Data and service messages are sent via INFRA Net for maximal flexibility.

CALIBRATION OF DATA LOGGER

The data logger has an internal memory for identity, calibration factors, calibration date etc.

CALIBRATION OF SENSOR

The sensor has an internal memory for identity, calibration factors, calibration date etc.

USER INTERFACE AND DISPLAY

With a keyboard and display settings can be changed. The display also shows battery status, signal strength, and the latest events.

REMOTE OPERATION

Settings can be changed remotely using INFRA Net.

MECHANICAL & ENVIRONMENTAL

Data logger – Watertight plastic PELI-case.

Dimensions: 130 x 250 x 270 mm (5.1 x 9.8 x 10.6 in)
(excluding connector and standoffs)

Material: Copolymer polypropylene
Protection class IPX6 with lid closed

Weight: 3,7 kg (8,2 lbs) batteries included

Vertical geophone

Dimensions: 62 x 36.5 x 64.5 mm (2.4 x 1.8 x 2.5 in)
(excluding connector and standoffs)

Material: Aluminum

Weight: 400 grams (0.9 lbs)

Triaxial geophone

Dimensions: 73 x 61.5 x 71.5 mm (2.9 x 2.4 x 2.8 in)
(excluding connector and standoffs)

Material: Aluminum

Weight: 800 grams (1.8 lbs)

Operating temperature: –20 to + 50 °C (–4 to 122 °F)

CE APPROVAL

EMC: 2014/30/EU

LVD: 2014/35/EU

RoHS: 2011/65/EU (2015/863)

Product specifications and descriptions in this document are subject to change without notice.

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