**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:**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Frequency Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS 4604866 Spräng</td>
<td>5 – 300 Hz</td>
</tr>
<tr>
<td>SS 025211 Schakt</td>
<td>5 – 150 Hz</td>
</tr>
<tr>
<td>SS 025211 Schakt</td>
<td>2 – 150 Hz</td>
</tr>
<tr>
<td>NS 8141:2013 Byggverk</td>
<td>3 – 400 Hz</td>
</tr>
<tr>
<td>NS 8141:2001 Byggverk</td>
<td>5 – 300 Hz</td>
</tr>
</tbody>
</table>

*) 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)