

SEISMIC SENSORS

LE-3DLITE MkIII

Compact, high performance three-component 1Hz seismometer

The Le-3DLite is perfectly suited for all kinds of local (micro)seismic monitoring- no matter if you want to measure tectonic, volcanic or induced seismicity. The seismometer is made for fieldwork in harsh environments.

SPECIFICATIONS

EIGENFREQUENCY	1 Hz
UPPER FREQUENCY LIMIT	100 Hz
TRANSDUCTION FACTOR	800 V/(m/s)
OUTPUT SIGNAL	3 analog voltages, 30 Vpp differential
POWER SUPPLY	+10...+16 V DC, <6 mA @ 12 V
DIMENSIONS	97 mm diameter, 92 mm height (excluding eyebolt)
WEIGHT	1.9 kg
TEMPERATURE RANGE	-15°C... +60°C
RMS NOISE @ 1 HZ	< 3 nm/s
DYNAMIC RANGE	>136 dB



FEATURES & CHARACTERISTICS

- » Compact and robust instrument
- » Stainless steel casing
- » Protection class IP67
- » Ultra-low power consumption
- » Quick and easy installation (plug and measure)
- » Uniform sensitivity and transfer function

LE-1D/VLITE MkIII

Compact, high performance one-component 1Hz seismometer

The LE-1D/V is the little brother of the LE-3DLite and perfectly suited to density seismic networks, to install seismic small arrays, and for engineering purposes. The LE-1D/V made for fieldwork in harsh environments.

SPECIFICATIONS

EIGENFREQUENCY	1 Hz
UPPER FREQUENCY LIMIT	100 Hz
TRANSDUCTION FACTOR	800 V/(m/s)
OUTPUT SIGNAL	1 analog voltage, 30 Vpp differential
POWER SUPPLY	+10...+16 V DC, <2.5 mA @ 12 V
DIMENSIONS	76 mm diameter, 92 mm height
WEIGHT	1.1 kg
TEMPERATURE RANGE	-15°C... +60°C
RMS NOISE @ 1 HZ	< 3 nm/s
DYNAMIC RANGE	>136 dB



FEATURES & CHARACTERISTICS

- » Compact and robust instrument
- » Stainless steel casing
- » Protection class IP67
- » Ultra-low power consumption
- » Quick and easy installation (plug and measure)
- » Uniform sensitivity and transfer function

LE-3D/BH(S) MkIII

High performance three-component 1Hz borehole seismometer

The LE-3D/BH seismometer is the borehole version of the LE-3Dlite and the best solution for challenging and urban sites. The seismometer is very robust, ultra-slim and has an ultra-low power consumption. This sensor type is offered in two versions: one for orientated installations with holelock mechanism and one for simplified installations in sand.

SPECIFICATIONS

EIGENFREQUENCY	1 Hz
UPPER FREQUENCY LIMIT	100 Hz
TRANSDUCTION FACTOR	800 V/(m/s)
OUTPUT SIGNAL	3 analog voltages, 30 Vpp differential
POWER SUPPLY	+10...+16 V DC, <6 mA @ 12 V
DIMENSIONS	62 mm diameter, 880 or 1080 mm length
WEIGHT	8.5 or 9.0 kg
TEMPERATURE RANGE	-15°C... +60°C
RMS NOISE @ 1 HZ	< 3 nm/s
DYNAMIC RANGE	>136 dB



FEATURES & CHARACTERISTICS

- » Robust instrument
- » Stainless steel casing
- » Protection Class IP68
- » Ultra-small diameter
- » Ultra-low power consumption
- » Uniform sensitivity and transfer function
- » Orientated installation with holelock possible

LE-3D/5S MkIII

Compact, high performance three- component 5 seconds (0.2 Hz) Seismometer

The LE-3D/5s is perfectly suited for all kinds of local and regional seismic monitoring, H/V measurements and seismic microzonation.

The seismometer is made for fieldwork in harsh environments: very robust and with ultra-low power consumption.

SPECIFICATIONS

EIGENFREQUENCY	0.2 Hz
UPPER FREQUENCY LIMIT	50 Hz
TRANSDUCTION FACTOR	800 V/(m/s)
OUTPUT SIGNAL	3 analog voltages, 30 Vpp differential
POWER SUPPLY	+10...+16 V DC, <7.5 mA @ 12 V
DIMENSIONS	194 mm diameter, 165 mm height (excluding handle)
WEIGHT	6 kg
TEMPERATURE RANGE	-15°C... +60°C
RMS NOISE @ 1 HZ	< 1 nm/s
DYNAMIC RANGE	>140 dB



FEATURES & CHARACTERISTICS

- » Robust instrument
- » Protection class IP67
- » Ultra-low power consumption
- » Quick and easy installation (plug and measure)
- » Uniform sensitivity and transfer function