

# VELOGET 3D SEISMOMETER

**Veloget 3D Seismometer with high sensitivity sensors designed for HVSR and seismic and civil monitoring.**

Class I triaxial seismometer, compliant with DIN 4150- 3, DIN 45669-1, UNI 9916 and UNI 9614.

It is supplied in a metal container IP66, with adjustable feet and control bubble. It can be optionally requested also IP69 for installations in presence of water.

Available in triaxial, biaxial and uniaxial configuration for vertical or horizontal applications, with military connector or cable gland for fixed installations. It consists of an electronically linearized geophonic triad, with dynamics greater than 130dB.

A special system on the bottom plate allows fixing to the floor/wall with a single plug and the three adjustment screws ensure leveling. The internal electronics provides for the management of functional tests, programmable by the user.

## APPLICATIONS

- HVSR measurement
- Civil monitoring
- Seismic networks



# VELOGET 3D SEISMOMETER

## TECHNICAL CHARACTERISTICS

Model	Solgeo VELOGET 3D (2D, 1D optional)
Principle	Electronically equalized geophone
Number of axis	3, orthogonally oriented
Sensor	Geophone GS-11D or equivalent
Case to coil motion	2,5 mm (p-p)
Frequency range	Selectable, 1-80 Hz or 1-315 Hz
Dynamic range	>130 dB
Measure range	$\pm 125$ mm/s or $\pm 12,5$ mm/s @16Hz see nomogram measuring range
Sensitivity	Selectable, 40 V/m/s or 400 V/m/s
Spectral noise	3.5 nm/s (rms, 16 Hz – 200 Hz), 55 nm/s (rms 1Hz – 315Hz)
Linearity	$\pm 0.4$ dB (class 1 – DIN 45699-1)
Phase	According to class 1 – DIN 45699-1
Self-test	Active self-test, impulse 10 mm/s
Supply voltage	10 to 18 Vcc
Output impedance	<50 ohm
Power consumption	240 mW
Temperature range	-20° to +60° C
Output voltage	Differential, $\pm 5$ V
Housing	Aluminium
Protection	IP 66
Dimension	150 mm (L), 100 mm (H), 75 mm (La)
Wright	1.6 Kg
Connection	Metallic connector or integrated cable
Accessories	Platform with levelling screws, single bolt fixing



SolGeo

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