

VELOGET 3D 1Hz SEISMOMETER

The VELOGET 3D Seismometer is a Triaxial Class 1 Surface Seismometer, housed in an IP67 metal case that is available in three different configurations: Tri-axial, Biaxial and Monoaxial – The Veloget 1Hz seismometer can be used on vertical or horizontal surfaces. It is equipped with a military connector with cable to allow fixed installations.

The Veloget is ideal for use in **micro seismic studies** such as for **Dams in high seismic areas, used both upstream and downstream. Drilling & underground tunneling applications amongst other applications.**

The **Veloget seismometer** is made up of **three electronically linearized geophones** which allows operation at a **frequency range** that is **selectable from 1 to 80Hz or 1 to 315Hz** with a **high dynamic range of > 130dB**.

The Veloget has a **built in test management feature**.

The **Veloget Seismometer** is used in conjunction with a **DYMAS MASTER – V Unit** or with a **DYMAS ALBEN** Floor mounted or wall mounted configuration.



Features:

- Conforms to reference standards DIN 4150-3, DIN 45669-1, UNI 9916 and UNI 9614.
- Extremely compact and housed in IP67 metal case.
- Equipped with military connector.
- Can be mounted onto a wall or fixed on the ground.

Specification:

Model:	SolGeo VELOGET 3D (2D, 1D optional)
Principle:	Electronically equalized geophone
Number Of Axis:	3, orthogonally oriented
Sensor:	Geophone GS-11D
Case To Coil Motion:	2.5mm (p-p)
Frequency Range:	Selectable, 1-80Hz or 1-315Hz
Dynamic Range:	> 130dB
Measure Range:	+/- 125mm/s or +/- 12.5mm/s @16Hz see nomogram measuring range
Sensitivity:	Selectable, 40 V/m/s or 400 V/m/s
Spectral Noise:	3.5nm/s (rms, 16Hz-200Hz), 55nm/s (rms 1Hz - 315Hz)
Linearity:	+/- 0.4dB (class 1 - DIN 45699-1)
Phase:	According to class 1 - DIN 45699-1
Self-Test:	Active self-test, impulse 10mm/s
Supply Voltage:	10 to 18 Vcc
Output Impedance:	< 50 ohm
Power Consumption:	240 mW
Temperature Range:	-20°C to +60°C
Output Voltage:	Differential, +/- 5V
Housing:	Aluminium
Protection:	IP65
Dimension:	150mm (L), 100mm (H), 75mm (La)
Weight:	1.6 Kg
Connection:	Metallic connector or integrated cable
Accessories:	Platform with levelling screws, single bolt fixing

