

SISMA 120 VELOCIMETERS

SISMA Seismometer has high performance triaxial with high sensitivity sensors designed for the creation of seismic and microseismic networks.

The SISMA 120 (Seconds) is compact, reliable and easy to deploy and use. No need for calibration, it comes with calibration certificate with poles and zeroes detail. Wide tilt tolerance allows the unit to work within minutes from deployment.

Differential output with high gain and high dynamic range allows the unit to be used with all kinds of seismic digitizers.

The homogeneous architecture of SISMA 120(s) assures for each UUVV element high quality thanks to the standardized production line. Advanced selection of component's materials from aluminum to titanium and special alloys, allows the maximum robustness and thermal stability.

The following diagrams shows the noise floor of 0.01 Hz-40Hz sensors.

APPLICATIONS

- Seismic and microseismic networks



SISMA 120 VELOCIMETERS

ELECTRONIC CHARACTERISTICS

Configuration	U, W, V (output matrix to Z, X, Y)
Principle of operation	Coil-magnet force feedback with capacitive transducer
Nominal sensitivity	1500 V/m/s (or other to be specified at order)
Velocity output	Selectable X, Y, Z (default) or UVW moe
Pass band	From 180-120 seconds to 30-100 Hz (frequency range)
Peak output	± 20V (differential output)
Output impedance	2*100 ohm
Mass position output	± 10V from UVW signals
Dynamic range	>148 dB
Parasitic resonance	Higher than 140 Hz
Calibration input	1 with axis selection (U, W or V)
Power supply input	9-36 Vdc isolated (U, W or V)
Power consumption	<0.5 W typical (1W maximum) @ 12 Vdc
Protection	Reverse-voltage protected and self-resetting fuse
Calibration coil	33 ohm
Self noise	< USGS NLNM between 0.025 Hz and 25 Hz
Levelling	Manual with lockable paddles, integrated level
Maximum allowed tilt	± 2° from horizontal
Operating temperature	-20°C to +70°C
Operation range	±15° without recentring
Storage temperature	-40°C to +80°C
Temperature	0-100% even condensing
Protect grade	IP68K
Mass centering	Automatic (externally activate)
Mass lock	Electric to be activated before
Max shock allowed	5G half sine
Connector	26 pin MIL-C-26842 mounted on base
Standard cable length	Standard 3 meters
Digital interface	RS232 for diagnosis and commands
Dimension	Maximum diameter 240 mm (excluding connector)
Weight	15 kg
Regulation compliance	CE
Enclosure	Air tight optimized to be insensitive to atmospheric pressure fluctuations, with stainless steel and aluminium treated against corrosion and epoxy painted



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