

SS08 SEISMOMETER



Simplicity

The SS08 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 with automatic mass centering allow the unit to operate in minutes.

Flexibility

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

Energy

Very low power consumption of less than 0.5W allow the unit to be used in remote installation.

Precision

The SS08's homogeneous architecture assure for each UWV element high quality thanks to the standardised production line. Advanced selection of component's materials from aluminum to titanium and special alloys, allows the maxiumum robustness and thermal stability.

Ultra low-noise

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



Quality

Our instruments are continuously being developed with the cooperation of experts in geophysics and seismology. Our extensive list of clients includes public and private institutions worldwide, such as: INGV, ENEA, CNR, DPC in Italy and many other institutes and private clients in Switzerland, Germany, Spain, Chile, Argentina, Brazil, Venezuela, and more.

The SS08 is a portable broad-band triaxial seismometer designed for quick and simple installation, wide temperature range operation and secure transport.

Rather then have the traditional separate 3 axis of sensitivity X,Y,Z it use the homogeneus architecture giving axis in U,W,V and then providing the X,Y,Z with a processor matrix.

Robust and rugged design with all internal mechanical controls automated by electronic.

Specifications

Configuration: Principle of operation: Nominal sensitivity: Velocity output: Pass band: Peak output: Output impedance: Mass position output: Dynamic range: Parasitic resonance: Calibration input: Power supply input: Power supply input: Power consumption: Protection: Calibration coil per cell: Mechanical eigenfreq.: Self noise: Levelling: Maximum allowed tilt: Operating temperature: Operation range: Storage temperature: Humidity: Protection grade: Mass centering: Mass lock: Maximum shock allowed: Connector: Standard cable length: Digital interface:	U,W,V (output matrix to Z,X,Y) Coil-magnet force feedback with capacitive transducer 2000V/m/s (or other to be specified at order) selectable X,Y,Z (default) or UVW moe from 180-120 seconds to 30-100 Hz (frequency range to be specified at order) +/-20V (differential output 40Vp-p) 2*100 ohm +/-10V from the U,V and W signals > 148dB higher than 140Hz 1 with axis selection (U,W or V) 9-36Vdc isolated (15kV) < 0.5W typical (1W maximum) @ 12Vdc reverse-voltage protected and self-resetting fuse 33 ohm < 1Hz < USGS NLNM between 0.025Hz and 25Hz manual with lockable paddles, integrated level +/-2° from horizontal -20°C to +70°C +/-15°C without recentering -40°C to +80°C 0-100% even condensing IP68K automatic (externally activated) electric to be activated before transportation 5g half sine 26 pin MIL-C-26842 mounted on base standard 3 meters RS232 for diagnosis and commands
Digital interface:	RS232 for diagnosis and commands
Dimensions: Weight: Enclosure:	maximum diameter 240 mm (excluding connector) max height 275 mm 15 kg air tight optimized to be insensitive to atmospheric pressure fluctuactions, with stainless steel and aluminum treated against corrosion and epoxy painted.
Regulation Compliance:	CE
All specifications are subjected to change without any prior notice!	

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