

SS08C

Technologies for seismology, engineering and geophysics

SS08C is a portable, compact, broad-band, triaxial seismometer designed for quick and simple installation, wide temperature operations and safe transport. It uses the symmetric architecture recovering Z,Y,X velocity signal from U,V,W homogeneous transducers. This methodology allows higher precision in reconstruction of real ground motion.

Applications

- * Observatory grade Earthquake seismology
- * Reservoir microseismic monitoring
- * Soil property inspection and evaluation
- * Microzonation

Main features

- * High compactness and low weight
- * Ultra low noise design
- * Fast setup, data are useable few minutes after deployment
- * Easy deployment, similar to a geophone for the size
- * Allow use in shallow posthole without any special care
- * Intrinsic robustness due to low weight and size
- * Different foot options are available for different surfaces.
- * Low power consumption allows unit to be used in remote istallation with limited energy source
- * Made in EU (Italy)

Housings

Different housing are available upon request, for example borehole / posthole deployment using stainless steel AISI316 housing and motorized automatic levelling for high tilt compensation.





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Specifications

Configuration: U,V,W (output to physical motion Z, Y, X) Principle of operation: Force Feedback with capacitive transducer Nominal sensitivity: 1500V/m/s* (customizable at order) Velocity output: Selectable Z, Y, X or U, V, W mode 120-20s to 100Hz (customizable at order) Pass-band:

Number of channels: 3 + 3 (Z, Y, X and virtual mass UVW status) +/- 20V (differential output, 40V p-p) Peak output:

13 mm/sec (nominal @ 1500 V/m/s, see chart) Clip level:

2 x 100 Ohm Output impedance:

Mass position output: +/- 10V from U,V,W signals

Dynamic range: > 135dB in range 0.1 - 10Hz (see chart) Calibration input: 1 with transducer selection (U,V,W,all)

Power supply input: 9-36Vdc isolated

Power consumption: < 500mW* @ 12Vdc (1W maximum depending on conditions) Protections: Surge and reverse-voltage, with self-resetting fuses

Calibration coil: 16 ohm

<USGS NLNM between 0.03 to 10Hz* Self noise:

Manual with lockable paddles, integrated level Levelling:

+/- 3° with levelling feet Max. tilt olerance:

Operating temperat.: -20/+50°C -40/+80°C Storage temperature:

Humidity: 0-100% even condensing (with plugged-in connectors)

Protection grade:

Mass lock & centering: Not necessary Max. shock allowed: 5q half sine

Connector: MIL-C-26842 26 pin mounted on top Standard cable lenght: 3 meters, customizable at order RS232 or RS485 for diag & test Digital interface: Dimension: diameter 100mm, body height 125mm

Weight: 1.42ka

Enclosure: Aluminum painted, air tight,

treated against corrosion

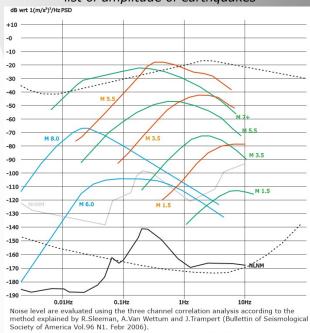
Norm conformity:

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ISO 9001:2015 ertified compan N° 2923



Clip and noise level compared to NLNM and a list of amplitude of earthquakes



LOCAL EVENTS 5 - 50 km LOCAL EVENTS 80 - 120 km LOCAL EVENTS 1800 - 3200 km ---- Clip limit and Noise fi

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^{*} specification may vary depending on customization