

SS08C is a portable, compact, broad-band, triaxial sesimometer 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

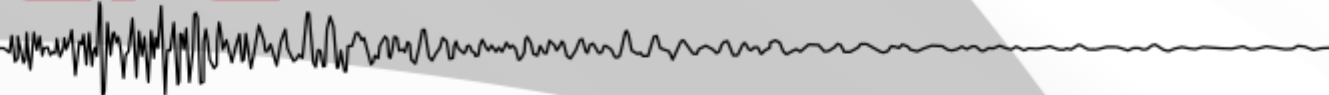
## Main features

- \* 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.





**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                     |
| Pass-band:              | 120-20s to 100Hz (customizable at order)               |
| Number of channels:     | 3 + 3 (Z, Y, X and virtual mass UVW status)            |
| Peak output:            | +/- 20V (differential output, 40V p-p)                 |
| Clip level:             | 13 mm/sec (nominal @ 1500 V/m/s, see chart)            |
| Output impedance:       | 2 x 100 Ohm  |
| 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   |
| Self noise:             | <USGS NLNM between 0.03 to 10Hz*                       |
| Levelling:              | Manual with lockable paddles, integrated level         |
| Max. tilt olerance:     | +/- 3° with levelling feet                             |
| Operating temperat.:    | -20/+50°C  |
| Storage temperature:    | -40/+80°C  |
| Humidity:               | 0-100% even condensing (with plugged-in connectors)    |
| Protection grade:       | IP68K  |
| Mass lock & centering:  | Not necessary  |
| Max. shock allowed:     | 5g half sine   |
| Connector:              | MIL-C-26842 26 pin mounted on top                      |
| Standard cable lenght:  | 3 meters, customizable at order                        |
| Digital interface:      | RS232 or RS485 for diag & test                         |
| Dimension:              | diameter 100mm, body height 125mm                      |
| Weight:                 | 1.42kg   |
| Enclosure:              | Aluminum painted, air tight, treated against corrosion |
| Norm conformity:        | CE   |

\* specification may vary depending on customization

Notice! This paper is an information leaflet only; it is published without programmed updates. All specifications, features and prices are subjected to changes without any prior notice. In the event of any discrepancies between this document and a commercial offer or bidding document, these latter will take precedence.

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

