

The SSxx series is a short period models geophone based seismometers. The available versions go from pure mechanic electrodynamic transducers to force feedback sensors using the popular Lippman compensation circuit.

Applications

- * Observatory grade earthquake seismology
- * Structure health monitoring
- * Operational Modal Analysis
- * Microseismic network
- * Dams monitoring
- * Soil exploration

Main features

- * Mono or Triaxial version available
- * Dynamic range up to 160dB
- * Extended bandwidth (
- * Borehole version available
- * Robust suspension system
- * Slot at bottom for single bolt mounting
- * Wall, floor, ceiling mount available upon request
- * Low power consumption
- * Response files are available through IRIS NRL library
- * Made in EU (Italy)

Housings

They are available in different housings depending on the used geophone as sensing element. Posthole/Borehole versions are available, borehole version can be equipped with orienting mechanism or hole-lock systems to be used at any level in the downhole pipe. Stainless steel AISI316 housing or titanium are available upon request for hole or marine installations.

Reliability

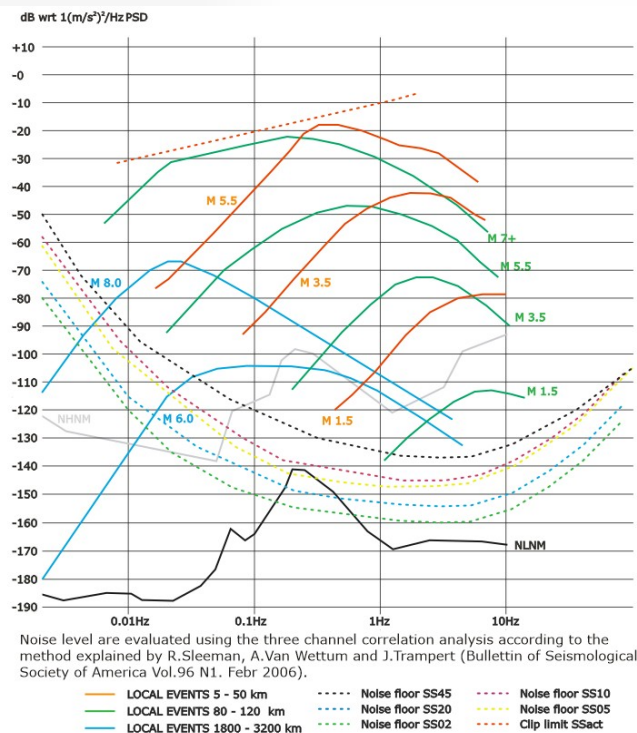
These sensors are in operation worldwide by over 20 years and are in operation in many different scenarios from O&G survey, SHM, Microseismic, EEWS, etc...



Specifications

Number of axes:	1, 2 or 3 in X, Y, Z or any combinations of the three
Orientation:	horizontal or vertical (wall mount) to be specified at order
Levelling:	manual, with adjusting knobs
Casing:	solid block of aluminum CNC milled and treated against corrosion
Dimensions:	140x155x85mm (except connectors); compact version 170x80x58mm; for borehole/posthole version the diameter is 70mm and highness (depending on versions) is from 700 to 1500mm
Weight:	depending on versions from 1.5kg (1D surface) to 8kg (borehole hole lock version + cable weight, ask for details)
Protection grade:	IP68
Tolerated humidity:	0-100%
Temp. operative range:	-20 to +70°C
Bandwidth/sensitivity:	SS10 typical 1.0-50Hz (1.0-100Hz optional) 400 or 800 V/m/s SS05 typical 0.5-50Hz (0.5-100Hz optional) 400 or 800 V/m/s SS02 typical 0.2-50Hz (0.2-100Hz optional) 400 or 800 V/m/s
Damping:	0.707
RMS noise:	1Hz and 0.5Hz < 2nm/sec; 0.2Hz < 1nm/sec
Mass locking:	automatic mass shunt for 0.2Hz sensor (optional on 1 and 0.5Hz)
Power supply:	9-36Vdc (<10mA for a triaxial unit in standby)
Connector:	MIL-C-26842 10 pin connectors or cable gland
Regulation compliance:	CE

specifications may varyate depending on customization



Clip and noise level compared to Peterson's noise models and a list of amplitude of earthquakes

ISO 9001:2015
certified company
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SARA electronic instruments s.r.l.

Registered office - Via A. Mercuri, 4 - 06129, Perugia - Operations: - Via A. Morettini, 11 - 06128, Perugia - ITALY
Phone: +39 075 5051014 - +39 075 9370309 - +39 075 3726002 - +39 328 4165648 - www.sara.pg.it - info@sara.pg.it

