



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

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

Robust and rugged design doesn't require any mass lock to activate before transport, no external mechanic controls with automatic mass centering functionality embedded in electronic.

Simplicity

The SS08 is compact, reliable and easy to deploy and use. No needs to calibrate since it comes with calibration certificate with poles and zeroes detail. Wide tilt tolerance allow the unit to work within minutes from deployment.

Flexibility

Three differential output with high gain allow them to be used with our digitizers as well with thirty party digitizers.

Energy

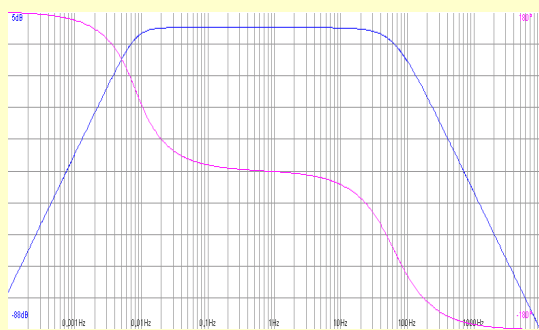
Very low power consumption of less than 2W allow the unit to be used in remote installation.

Precision

The SSxx sensors the homogeneous architecture that assure the user to have the same sensitivity on all axis, else the system would not work at all. Molded and machined metal for all essential components allowed to have the maximum repeatability of the elements.

Bode-plot

The following diagrams shows the standard amplitude and phase of a 120s-50Hz sensors.



SS-80 broad band seismometer specifications

Principle of operation:	Force Balance
Pass band:	from 180,120,60,30 seconds to 30,50 Hz optional frequency to be specified at order
Configuration:	U,W,V (out matrix to Z,X,Y)
Number of channels:	3 + 3 (X,Y,Z or W,U,V and mass position)
Damping:	0.707
Nominal sensitivity:	1500V/m/s (2 x 750V/m/s)
Peak output:	+/-10V (differential output)
Output impedance:	47 ohm
Lowest spurious reson:	> 350Hz
Linearity:	> 120dB
Cross axis rejection:	> 90dB
Dynamic range:	> 144dB
Orthogon. output error:	< 0.1%
Noise level:	< NLNM between 100s and 25Hz
Power input:	10-18Vdc
Power consumption:	0.2W – 3W depending on signal and mass position conditions
Calibration input:	1 with axis selection (U,W or V)
Calibration coil:	30-400 ohm option at order
Maximum allowed tilt:	+/-2°
Levelling:	manual with lockable paddles
Inertial mass:	200 g
Mass movement:	3 mm
Mass centering:	Automatic or manual (external activated)
Case Material:	molded and machined aluminum water and air-pressure proof
Operating temperature:	-20°C to +55°C
Dimensions:	maximum diameter 250mm; max height 220mm
Weight:	6500g
Cable length:	standard 3 meters
Connector:	MIL-C 18 pins waterproof
Certifications:	CE (EN55022, EN55011)