

FEATURES

- 344 V-sec/m
- Mass lock
- Period adjust
- Simplified field maintenance

The S-13J is a 1.0 Hz short period sensor that is ideal for portable applications which require exceptional performance in a small size.

Features of the S-13J include adjustable mass position and free-period, mass lock, and built-in calibration coil.

The design and resulting stability of the S-13J are inherited from the time proven Model S-13. These features result in a sensor that seldom requires adjustment and is simple to maintain in the field.

S-13J/3 is a 3- component package of S-13J sensors orthogonally mounted on a base plate having a handle and an air bubble leveling device.

SHORT-PERIOD SEISMOMETER

MODEL S-13J and S-13J/3



SHORT-PERIOD SEISMOMETER, MODEL S-13J and S-13J/3 SPECIFICATIONS

OPERATING CHARACTERISTICS

Mode of Operation	Vertical or horizontal
Natural Frequency	1 Hz - factory adjustable
Tilt	Operates within 4° of vertical
Inertial Mass	.94 kg (2.07 lbs.) nominal
Temperature Range	-51° to +60°C (-60° to +140°F)
Transducer	
Type	Moving coil (velocity)
Damping	Electromagnetic
Generator Constant	344 V/(m/sec)
Coil resistance	6400 Ohms
Maximum Mass Travel	±1.5 mm (0.06 in.)
Dynamic Range	140 dB @ 1Hz 160 dB @ 100 Hz
Calibration Coil Resistance	20 Ohms, calibration coil well separated from the signal coil

PHYSICAL CHARACTERISTICS

Dimensions (nominal)	S-13J only
Basic Dimensions	
Height	18.5 cm (7.3 in.) over handle
Diameter	10.2 cm (4.0 in.)
Net Weight	3.05 kg (6.73 lbs.)
Shipping Data	
Weight	6.0 kg (13.2 lbs.)
Volume	0.019 m ³ (0.65 ft. ³)
Submerged Operating	Up to 30 m
Connectors	
Receptacle	PT07A-10-6P
Mating Plug	PT06A-10-6S

