

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 (flat up to 400 Hz) |
| Tilt | Operates within 4° of vertical |
| Inertial Mass | .94 kg (2.07 lbs.) nominal |
| Temperature Range | -51° to +60°C (-60° to +140°F) |
| Humidity | 0 to 100% |
| 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 | IP67 (up to 30 m with special connectors) |
| Connectors | |
| Receptacle | PT07A-10-6P |
| Mating Plug | PT06A-10-6S |

