Rotational Seismometer R-2



The R-2 is rotational triaxial seismometer with magnetohydrodynamic calibration. The R-2 is suitable for measurements of rotational velocity vibrations. The R-2 is high sensitivity instrument with broadband frequency response. The main feature of the seismometer is low selfnoise at ultra-low-power consumption of 30 mA. The R-2 has calibration input for calibration without demounting, also seismometer can be used for 6DOF (Six degrees of freedom) systems. The R-2 doesn't require centering of masses and operates under any angle of installation.



Applications:

Field seismic exploration
Structural Health Monitoring (e.g. dams, industry, buildings)
Local seismic monitoring

> Channels: Angular velocity output:

Sensor dynamic range: Output sensitivity: Resolution: Self-noise: Output Signal Single Ended: Calibration input: Power voltage range: Power consumption: Centering of masses: Connector: Operating tilt range: Operating temperature range:

> Enclosure/Materials: Dimensions: Weight:

Triaxial orthogonal (XYZ) 0.033 - 50 Hz $(option \ 0.01 - 100 \ Hz)$ 134 dB @1 Hz 50 V/rad/s 8*10⁻⁸ rad/s @ 1 Hz -125dB @ 1 rad/s²/ \sqrt{Hz}) ± 20 V differential, 0.4 rad/s 1:1 10-18 V DC 30 mA Don't require 14-pin MS3102 $\pm 180^{\circ}$ $-15 to + 55^{\circ}C$ (option -40 to + 55 °C) aluminium case 120×120×100 mm 1.5 kg

Specifications subject to change without notice