



- **Directly Measures Rotation**
- **High Sensitivity**
- **Field Proven**
- **Low Power Consumption**
- **Rugged Construction**



R-1 Triaxial Rotational Seismometer

The R-1 is the newest in a line of sensors using state-of-the-art electro chemical technology. The R-1 triaxial rotational sensor features the highest sensitivity/resolution available in a rotational transducer, over a wide frequency band with no parasitic resonances. It directly measures rotational data and is insensitive to linear motion.

The R-1 is distinct from other recently developed unproven sensors on the market that it is field proven and successfully deployed in the field for many years.

The rugged 14 gauge steel construction is designed for the most demanding environments, complying with Nema 4, 4x and 12; JIC-EGP-1-1967; and IEC 529, IP66 standards.

Unlike solid-state type devices it is extremely sensitive with a low self noise floor and has very low susceptibility to temperature changes, offering a standard operating range of -15C to +55C.

Options include an additional three axis of linear force balanced accelerometers providing six outputs for all components of motion.

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Specifications	
Resolution @ 1 Hz	1.2xE-7 rad/sec
Dynamic Range	110 dB
Sensitivity	50V/rad/sec 200V/rad/sec opt.
Self Noise Level	< 1 microradian/sec RMS through the bandwidth of 0.05 to 20Hz.
Frequency Band Standard Optional Extended	0.05 to 20 Hz ± 3 dB 0.03 to 50 Hz ± 3 dB
Output Signal Single Ended	$\pm 5V$, $\pm 2.5V$
Clip Level @ 1 Hz	0.1rad/sec
Translational Sensitivity	None
Parasitic Resonances	None
Operating Temperature Standard Optional Extended	-15C to +55C -45C to +55C.
Crossaxis Sensitivity	nil
Temperature Scale Factor (Dev from 20°C)	<0.03%/°C
Shock	200g
Power Supply	9 to 14 VDC
Supply Current	20 ma
Dimensions	4.7"x4.7"x3.5"
NEMA Rating	4, 4x, 12
Weight	2 lb appx.
Specifications subject to change.	

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