

OMNI-2400
15 Hz
2400 Ω
OMNI

OMNI-2400

Omni-Directional Geophone

Features

- Unique omni-directional geophone design provides ideal vector fidelity response
- High output sensitivity (1.32 volt/in/sec)
- 200 °C temperature rating
- Ideal for multi-component, high resolution seismic and micro-seismic data recording and monitoring



The OMNI Series geophone provides an unique in-axis sensitivity regardless of tilt angle in space. Each OMNI element have the same specifications of sensitivity, impedance, phase, frequency response, and harmonic distortion providing an ideal vector fidelity response. The mathematical precision of the resulting measurements significantly improves the discrimination of plane wave measurements at the detector.

DESCRIPTION	SPECIFICATION	TOLERANCE
OPTIMUM ORIENTATION	OMNI	
OPERATIONAL RANGE	0° TO 180°	
NATURAL FREQUENCY (Fn)		
@ OPTIMUM ORIENTATION	15 Hz	± 5 %
@ OPERATIONAL RANGE	15 Hz	-5% to +15%
CLEAN BAND PASS (SPURIOUS RESPONSE)	> 365 Hz	
DC RESISTANCE	2400 ohms	± 5%
INTRINSIC VOLTAGE SENSITIVITY (G)		
@ OPTIMUM ORIENTATION	1.32 V/in./sec, 0.520 V/cm/sec	± 5 %
@ OPERATIONAL RANGE	1.32 V/in./sec, 0.520 V/cm/sec	-15% to + 5%
OPEN CIRCUIT DAMPING (B _o)		
@ OPTIMUM ORIENTATION	.57	± 15 %
@ OPERATIONAL RANGE	.57	-20% to +10%
MOVING MASS (M)	7.8 gr	± 5 %
HARMONIC DISTORTION	@ <u>15</u> Hz WITH DRIVING VELOCITY OF .7 in/sec (1.8 cm/sec) P-P	
@ OPTIMUM ORIENTATION	< .20 %	
@ OPERATIONAL RANGE	< .75 %	
DAMPING CONSTANT (B _r)	2066	
STORAGE TEMPERATURE	- 40 to +100 °C	
OPERATING TEMPERATURE	- 40 to +200 °C	
DIMENSIONS		
WEIGHT	1.52 oz., 44 gr	
DIAMETER	0.875 in., 2.22 cm	
HEIGHT	1.035 in., 2.63 cm	



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