

BROADBAND BORE-HOLE VSE-355G3R

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SERVO VELOCITY SEISMOMETER for UNDER GROUND



Feature

The model VSE seismometer is designed for very wide range earthquake measurement.

Recommendable application: Broadband Seismology, Regional and Teleseismic, Microseisms, Tsunami warning, Strong-motion observation.

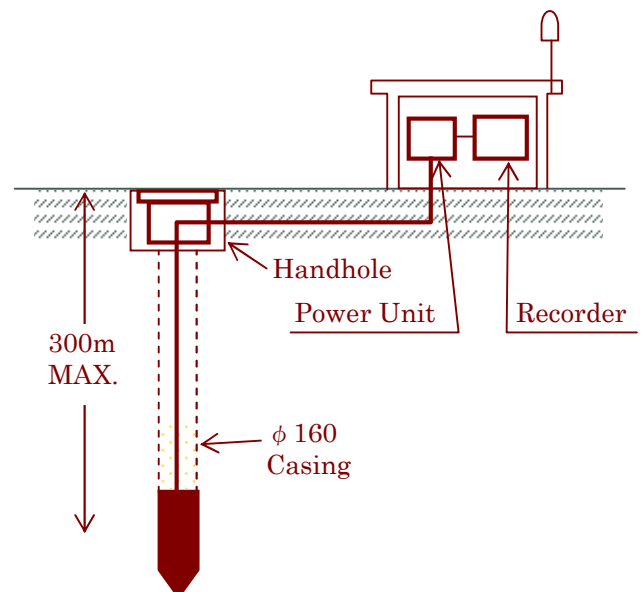
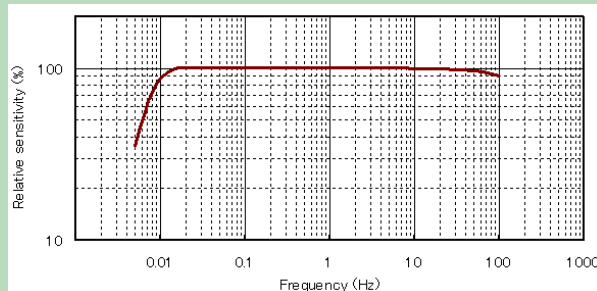
Clip level	2m/s
Frequency range	0.008 to 70Hz
Dynamic range	146dB
GL depth max.	GL-300m

Power unit (Built-in UPS)



PF-610

Frequency response



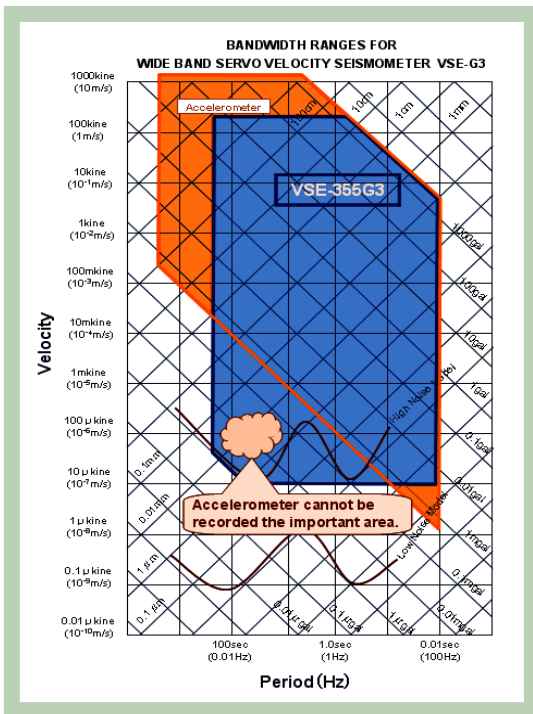
Specifications

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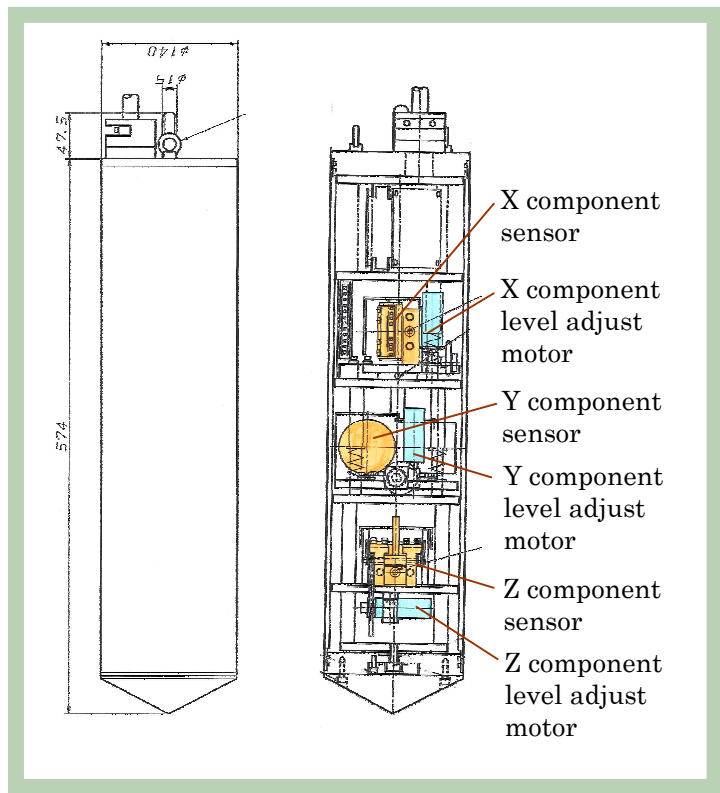
Mode of operation	Tri-axial	Cross axis sensitivity	0.5%
Frequency range	0.008 to 70Hz	Sensitivity of Temperature coefficient	0.01%/°C
Max. measuring range	±2m/s, ±20m/s ² (±2000Gal)	Temperature coefficient of zero-shift	0.05%/°C
Sensitivity	5V/m/s × 2	Power requirements	±15VDC
Max. Output voltage	±20V (Balanced output)	Current consumption	150mA
Tilt Output	5.13V/0.1degree	Arrester	Voltage 30V, Current 5kV, 100A
Resolution	10 ⁻⁸ m/s ² (10 ⁻⁶ Gal)	Temperature range	-10°C to 50°C
Dynamic range	146dB	Allowable shock	30G (less than 0.1sec)
Calibration coil	15μA/Gal, 1000Ω	Dimension	φ140 × 621.5 mm
Linearity	Less than 0.03%	Enclosure	Waterproof 30kg/cm ²

Recording Range

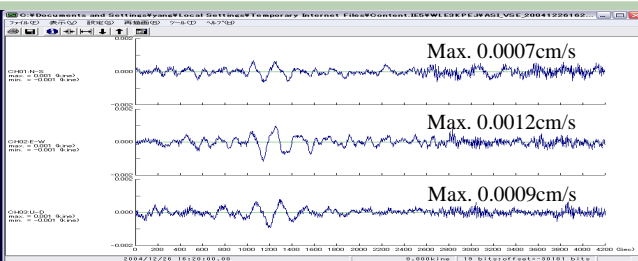
VSE-355G3 can record the important seismic signals shown by blue area.



Dimension

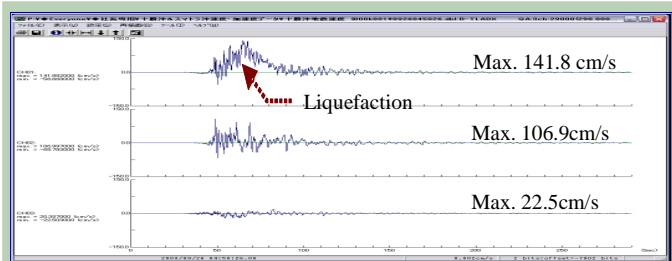


Micro Earthquake (Teleseismic)



Small aftershock of Sumatra Earthquake, Observed in Japan distance of 6,400km from Epicenter

Strong Motion (Near Source)



Off-Tokachi Earthquake (M=7.1), on September 26, 2003, distance from 90km from Epicenter

The specification may change without notification because of the proved product.