

FEATURES

- 2 - 1000 V/(m/s)
- 120 s to 50...100 Hz
- surface or borehole

KS-2000M is a broadband seismometer based on the time proven Model KS-54000. Its small size makes it ideal for portable applications. **KS-2000M** has a flat velocity response from 120 s to 50 Hz. Different sensitivities, output levels, and low cut-off periods (**100s, 60s, 50s, 40s, 30s, 20s**) or high cut-off frequencies (up to **100 Hz**) can be ordered.

A separate Controller Interface Model **CI-2000** is used to manual mass centering, which can also be done remotely, from the digitizer. A different version Model **KS-2000M/SP** is available as a general purpose, portable or borehole, three-component, short period seismometer, with low cut-off periods at **5s, 2s** or **1s** and an upper cut-off frequency of **100 Hz**. The future SMART version of **KS-2000M** identifies itself *via* a serial interface (Model, Serial Number, and calibration information) and periodically performs mass centering.

BROADBAND SEISMOMETER

MODEL KS-2000M Rev. 2 MODEL KS-2000BH



KS-2000M Rev. 2

KS-2000BH



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BROADBAND SEISMOMETER

MODEL KS-2000M Rev. 2 and KS-2000BH SPECIFICATIONS

OPERATING CHARACTERISTICS

Configuration	Three-component
Output, Seismic data	
Number and Type	Three, differential
Level	40 V peak-to-peak [*]
Sensitivity	2*1000 V-sec/m [*]
Temperature Range	-40° to +60°C (-4° to 140°F) (also extended range to +80°C)
Frequency Response	Flat to velocity from 120 s ⁻¹ (or 0.0083 Hz) to 50...100 Hz
Dynamic Range	143 dB
Noise	See figure below
Calibration Input	Each channel separately
Acceleration Mode	Equivalent to ground acceleration
Velocity Mode	Equivalent to ground velocity
Type	Voltage - sine wave, pulse, etc
Level	20 V peak-to-peak
Controls	
Mass centering	On remote command or periodically (SMART version only)
Self Identification (SMART version only)	Model, S/N, and stored calibration parameters <i>via</i> serial port

Dimensions (nominal)

Surface package

Height	28.5 cm (11.2 in.) with handle
Diameter	19.0 cm (7.5 in.)
Net Weight	11.3 kg (25 lbs.)
Submerged Operating	NEMA 6 or IP67

Borehole package

	To be installed in 4.154 to 7 in. boreholes
Height	143 cm (56 in.)
Diameter	8.9 cm (3.5 in.)
Net Weight	19 kg (42 lbs.)
Submerged Operating	Up to 400 m
Casing	Stainless steel
Mass recentering range	±15 degrees from horizontal
Power	+12 V DC (9 to 36 V), <0.9W
Spurious resonance	Above 100 Hz
Operating temperature	-30 ... +65 deg C

^{*} Other cut-off frequencies possible.



PHYSICAL CHARACTERISTICS

