

FEATURES

- 2 - 1000 V/(m/s)
- 0.0083 to 50 Hz
- surface or borehole

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

A separate Controller Interface Model **CI-2000** is used to speed up the manual mass centering. The motorized version **KS-2000M** does the mass centering on remote command. The borehole version **KS-2000BH** uses this feature. A different version Model **KS-2000/SP** is available as a general purpose, portable or borehole, three-component, short period seismometer, with cut-off at **5s**, **2s**, **1s**, and flat up to **80 Hz**. The future SMART version of **KS-2000** identifies itself via a serial interface (Model, Serial Number, and calibration information) and periodically performs mass centering.

BROADBAND SEISMOMETER

MODEL KS-2000/M Rev. 1 MODEL KS-2000BH



KS-2000M Rev. 1



KS-2000BH



CI-2000 Controller Interface

BROADBAND SEISMOMETER

MODEL KS-2000M Rev. 1 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, nominal from 0.0083 Hz to 50 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	Manual, on remote command (KS-2000M) 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)
Spurious resonance	Above 100 Hz

^{*}) Other values possible.



PHYSICAL CHARACTERISTICS

