

## FEATURES

- 2 - 1000 V/(m/s)
- 0.0083 to 50 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-2000/M Rev. 2 MODEL KS-2000BH



**KS-2000M Rev. 2**



**KS-2000BH**



**CI-2000 Controller Interface**

# BROADBAND SEISMOMETER

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

### OPERATING CHARACTERISTICS

<b>Configuration</b>	Three-component
<b>Output, Seismic data</b>	
Number and Type	Three, differential
Level	40 V peak-to-peak <sup>*</sup> )
<b>Sensitivity</b>	2*1000 V-sec/m <sup>*</sup> )
<b>Temperature Range</b>	-40° to +60°C (-4° to 140°F) (also extended range to +80°C)
<b>Frequency Response</b>	Flat to velocity, nominal from 0.0083 Hz to 50 Hz <sup>*</sup> )
<b>Dynamic Range</b>	143 dB
<b>Noise</b>	See figure below
<b>Calibration Input</b>	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
<b>Controls</b>	
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

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

#### Borehole package

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

<sup>\*</sup>) Other values possible.



### PHYSICAL CHARACTERISTICS

