

COMPARISON OF KINEMATICS PROVIDED BROADBAND SEISMOMETERS

Model:	MBB-2	STS-2.5	STS-5A	STS-6A
Application	<ul style="list-style-type: none"> • Portable seismic stations • Temporary and permanent installations 	Semi-permanent and permanent installations in well controlled environments	Semi-permanent and permanent installations	Permanent observatory-grade installations
Installation type	<ul style="list-style-type: none"> • Vault • Shallow borehole (recommended) 	Vault only	<ul style="list-style-type: none"> • Shallow borehole • Deep borehole 	<ul style="list-style-type: none"> • Shallow borehole • Deep borehole
Enclosure rating	IP68 (protected for temporary submerged operation)	IP67 (protected against spray water)	IP69 (protected for continuous submerged operation)	IP69 (protected for continuous submerged operation)
Holelock for deep borehole installations	N/A	N/A	<ul style="list-style-type: none"> • Single (at top of the sensor) • Dual (at top and bottom of the sensor) 	<ul style="list-style-type: none"> • Single (at top of the sensor) • Dual (at top and bottom of the sensor)
Adapter for "bishop's hat" holelock	No	N/A	Yes	Yes
Strain relief mechanism	No	N/A	Yes	Yes
Bandwidth	120 s – 140 Hz	120 s – 50 Hz	120 s – 50 Hz	360 s – 50 Hz
Approx. range below NLNM (vertical)	>20 s – 8 Hz	>200 s – 10 Hz	>200 s – 10 Hz	>10,000 s – 10 Hz
Diameter	3.875" / 98 mm	9.25" / 235 mm	5.75" / 146 mm	6.0" / 153 mm
Benefits	<ul style="list-style-type: none"> • Cost effective hardware • Cost effective installation option • Very small volume and weight • No mass lock • No mass centering • Very low power (240 mW) 	<ul style="list-style-type: none"> • High quality data • Wide temperature range without adjustment • Low power (450 mW) 	<ul style="list-style-type: none"> • High quality data • Wide temperature range without adjustment • Cost effective installation option • Low power (450 mW) 	<ul style="list-style-type: none"> • Ultra high quality data • Magnetic shielding for high latitude operation • High clipping level and dynamic range