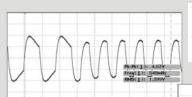


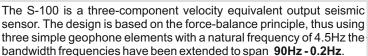
S100 Seismometer

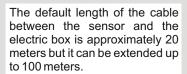
- 3 component sensor
- Low power consumption
- Borehole type
- Only 50mm diameter
- Up to 100m depth
- Smart elastic clamping
- Wide input voltage range
- Flexible power supply
- Wide Responce 0.2-98Hz
- High Sensitivity 1000V/m/s
- Force-Balance Design
- Build-in test function
- Operation Range: -20 +70°C
- Optional Surface Mount





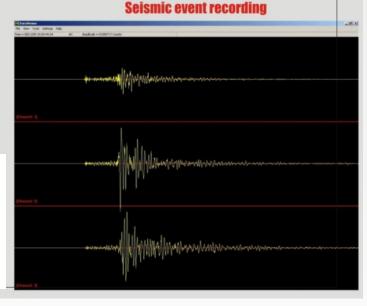
Self Test Example





The geophones are housed in a single enclosure producing a solid waterproof sensor suitable for installation into boreholes where the noise is considerably less than the surface. The geophones are placed in order and are orientated according to the 3–axes principle. A dot sign, engraved on the plastic cover of the case, indicates the direction of each axis. Optionally, surface mount installation is available.

The sensor is totally controlled by an advanced signal conditioning circuit that supplies current to the geophones putting them in constant vibration at different frequencies. The signal conditioning circuit is fully protected against over-voltage, reverse power supply and lightning inductive currents. It also enters power-off mode each time it becomes inactive, hence reducing the power consumption of the system.











INSTRUMENT CHARACTERISTICS

GENERAL	
Number of	3
channels	
Orientation	Vertical, North-South, East- West
Output resistance	500 Ohms
Geophone case	20 meters (up to 100 meters
cable length	optional)
Connection cable length	1 - 10 meters
Power	+/-11 to +/-36Vdc, 75mW
Max output voltage	+/-9Vdc bipolar, 18Vp-p
FEATURES	
Sensitivity	1000V/m/sec
Electronic output	160nV/Sqrt(Hz)
noise	
Bandwidth	0.2 - 100Hz
PHYSICAL	
Size (electronic box)	160 X 100 mm
Size (geophone enclosure)	180mm length, 50mm diameter
Weight (electronic box)	900g
Weight (geophone case)	600g
PROTECTION	
Overvoltage	All pins are protected, all input
protection	signals are protected
ENVIRONMENT	
Temperature range	-20 to +70oC
Humidity	100%, IP67 enclosure

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