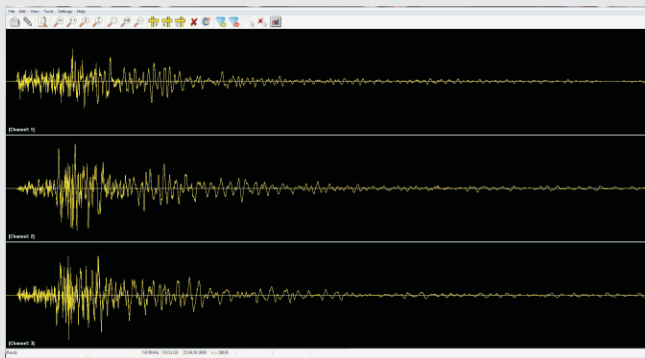
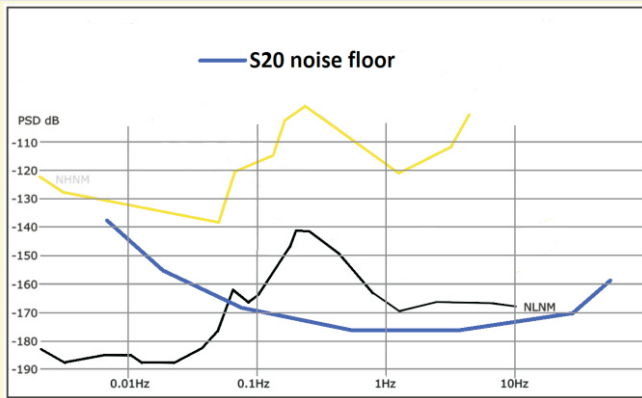


Monitoring the earth

- ▶ 3 component seismometer
- ▶ Low power consumption
- ▶ Borehole /surface type
- ▶ Only 80mm diameter
- ▶ Up to 150m depth
- ▶ Smart elastic clamping
- ▶ Guiding wheels driver
- ▶ Wide input voltage range
- ▶ Build-in test line
- ▶ Wide Response 20sec - 50Hz
- ▶ High Sensitivity 1500V/m/s
- ▶ Velocity feedback design
- ▶ Operation Range: -20 +70°C
- ▶ Local & Regional Seismicity Monitoring



The S-20 sensor series is a three component velocity output equivalent seismic sensor for local and regional seismicity monitoring. The sensor range is 20sec to 50Hz flat to velocity. The sensitivity is 1500V/m/s. The instrument is a perfect solution where near broad band seismic sensor is required.



The default cable length of the sensor is 5 meters for both surface and borehole types, but it can be extended up to 150 meters. The sensor electronics are housed inside the sensor casing. Two sensor types are provided, one borehole type and one surface type. Both have similar characteristics. The borehole type is housed into an 80mm diameter casing while the surface type unit's diameter is 130mm. No mass-lock or centering is required that makes an easy connection with the digitizer. The settling time of the unit is very short, only one minute. Sensitivity is 1500V/m/sec (differentially) thus providing a very sensitive seismic sensor. A test line is also provided for calibration and testing. The sensor is ideal for regional earthquake seismology and low frequency grumbling of volcanoes



**AUSTRALIAN & NZ
DISTRIBUTOR**

S20 near broad band

Seismometer 20sec-50Hz

Monitoring the earth 

Instrument Specifications

S-20 SEISMIC SENSOR		
GENERAL	SURFACE TYPE	BOREHOLE TYPE
Number of channels:	3	3
Orientation	Vertical, North-South, East-West	Vertical, North-South, East-West
Supply	12Vdc (10-18Vdc), 36mA-20Vpp 12Vdc (10-18Vdc), 68mA-40Vpp	12Vdc (11 – 18Vdc) 36mA-20Vpp 12Vdc (10-18Vdc), 68mA-40Vpp
Mounting	Three adjustable legs	Elastic Packer or Guiding Wheels
FEATURES		
Sensitivity	1500 V/m/sec	1500 V/m/sec
Output Resistance	470 Ohms	470 Ohms
Damping	0.7 critical	0.7 critical
Bandwidth	0.05Hz – 50Hz	0.05Hz – 50Hz
Linearity	+/- 1% at full range	+/- 1% at full range
Clip Level	13.33mm/s for 20Vpp out	13.33mm/s for 20Vpp out
Mass Centering	Not Required	Not Required
Calibration	Calibration Input	Calibration Input
PHYSICAL		
Cable length	Standard 5m	Standard 5m, up to 150m
Size	120mm diameter	420mm length, 80mm diameter
Weight(with 20m cable)	4.6kg	4.8kg
ENVIRONMENT		
Temperature range	-20 to +70 °C	-20 to +70 °C
Humidity	Submersible 5m	Submersible 500m



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