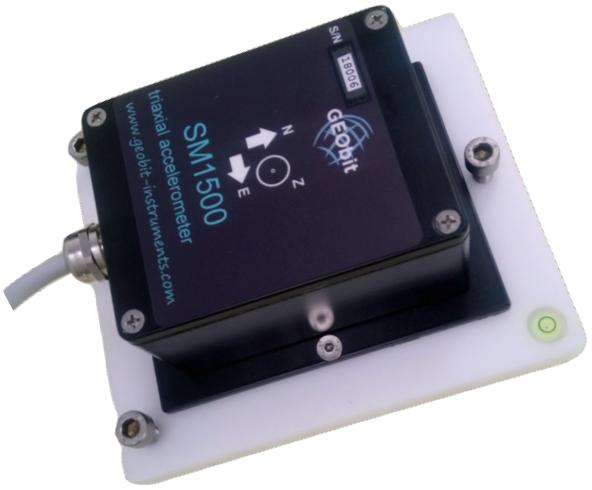
Exact
EXACT GLOBAL TEKNOLOGI

GEObit
Monitoring the earth

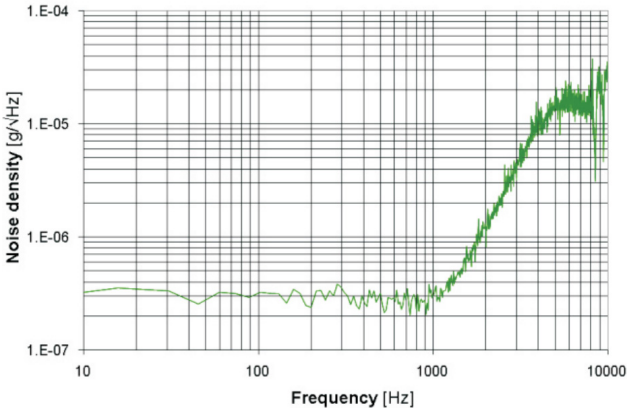
SMA
Acceleration Sensors

- 3 axis accelerometers
- Low power consumption
- Surface/wall mount installation
- MEMS-ASIC force balance technology
- Wide input voltage range
- Wide bandwidth DC to 550Hz or 2.4kHz
- Range +/-2g, +/-3g, +/-5g, +/-10g
- Wide dynamic range 102dB or 116dB
- Noise level 6µgrms/sqrt(Hz) or 0.7µgrms/sqrt(Hz)
- Operation Range: -20 +70°C



FEATURES

The SM1500 and SM550 are MEMS type, three-component acceleration sensors. They have wide frequency response. SM1500 model's response is DC to 550Hz and SM550 model's response is DC to 2.4kHz. Default Sensitivity is 2.4V/g for the SM1500 and 0.8V/g for the SM550 and can be adapted according to user's requirements.



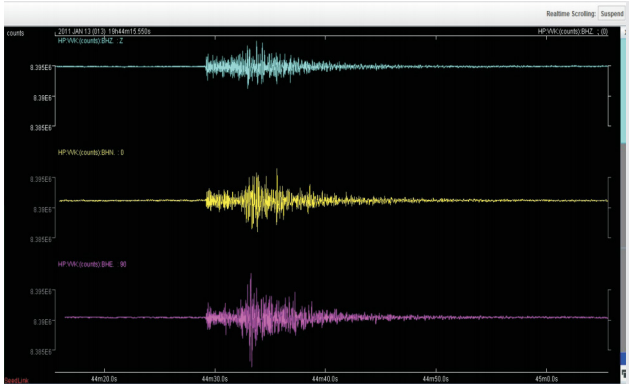
The SM1500 accelerometer is based on a varable capacitor transducer and a feedback circuit that operates in a closed-loop configuration. The feedback force is controlled by an application-specific integrated circuit (ASIC) which provides high reliability and low output noise.

The SM1500 and SM550 sensors operate getting powered from a single +9 to +18Vdc with and the typical power consumption is 28mA@12Vdc. Other power capabilities are available under request. The acceleration output of SM1500 and SM550 sensors can be bipolar or differential, 4-20mA current loop output is also available for both sensors.

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APPLICATIONS:

- Structural monitoring applications
- Earthquake monitoring
- Geophysics
- Homeland and border security
- Vibrations monitoring
- Tilt and inclination monitoring
- Shock measurements



INSTRUMENT SPECIFICATIONS

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GENERAL	SM1500	SM550
Number of channels	3	3
Orientation	Vertical, North-South, East-West	Vertical, North-South, East-West
Power	MEMS-Variable capacitor transducer and feedback circuit with close-loop configuration.	MEMS-Variable capacitor transducer and feedback circuit with close-loop configuration.
Bias Level	0V +\-100mV	0V +\-100mV
FEATURES		
Range	+/- 2g +/- 3g +/- 5g +/- 10g	+/- 2g +/- 4g +/- 8g
Sensitivity	2.7V/g	0.8V/g
Noise	6µgrms/sqrt(Hz) or 0.7µgrms/sqrt(Hz)	20µgrms/sqrt(Hz)
PHYSICAL		
Size	160 x 100mm	160 x 100mm
Weight	0.8kg	0.8kg
Mounting	Floor or wall mounting	Floor or wall mounting
EVIRONMENTAL		
Temperature range	-20 to +70°C	-20 to +70°C
Humidity	100% IP67	100% IP67

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