STRECKEISEN
SEISMIC INSTRUMENTATION

STS-7

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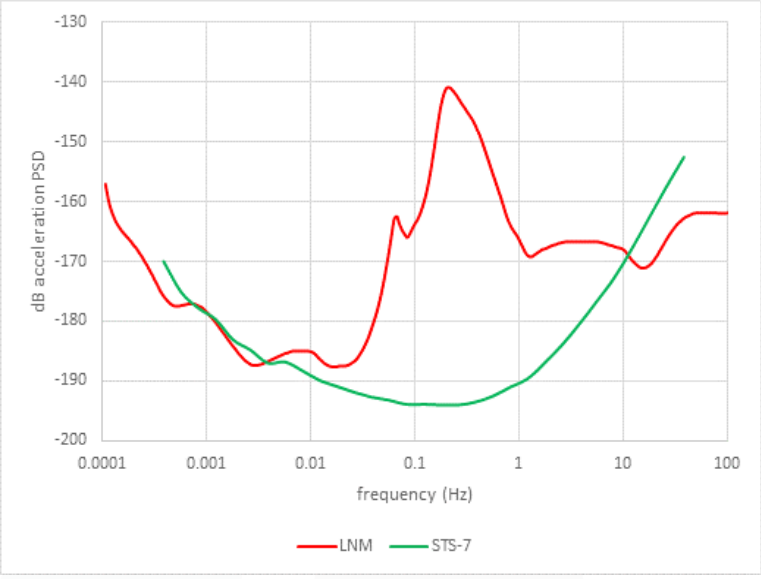
360s High-Performance Ultra Broadband Vault Seismometer

After the successful fielding of the STS-5A and of the world's quietest ultra-broadband borehole seismometer STS-6A, the STS-7 surface seismometer is introduced to the market based on the world standard STS-5A proven in the IRIS USArray/TA Alaska deployment – now with 360s response.

FEATURES

- Designed based on the world-standard STS-2.5 vault broadband sensor
- Same connector as STS-2.5, same hostbox, same installation
- RS232 remote monitoring (serial number, inside temperature and humidity, power supply levels, tilt)
- Auxiliary signals (POS/RAW) and control of centering and locking either available by RS232 or direct access via remote command
- Wider frequency range compared to STS-2.5



SPECIFICATIONS

Response:	Flat to ground velocity from 2.77mHz (360s) to 50 Hz
Clip level:	±13 mm/s ground velocity up to 20Hz Linear derating down to ±5.3 mm/s ground velocity from 20 - 50Hz
Clip level normalized to gravity:	20.50Hz 0.34g / 10Hz 0.17 / 1Hz 0.017g / 0.1Hz 0.0017g / 0.03Hz 0.00055g
Sensitivity:	1500 V/(m/s)
Parasitic resonances:	>140Hz vertical, >80Hz horizontal
No centering Tilt range:	± 0.03, (centering range limit ± 0.48)
No centering Temperature	±25° C
Power Supply:	10 - 30VDC, galvanically isolated 0.45W
Seismic signals output:	40Vpp differential
Auxiliary signal output:	20Vpp max. single-ended Mass positions or UVW selectable
Calibration input:	max. ±3VDC
Control inputs:	3 - 30VDC, 0.5mA, galvanically isolated
Communication:	Push buttons or RS232 galvanically isolated
Operating temperature:	-20° C to 70° C guaranteed, -40° C to 70° C functional
Humidity:	0-100% RH
Enclosure Rating:	IP67 Equivalent
Various:	RoHS and CE Compliant Unit
Size:	Cylindrical package, ø 235mm, height 260mm(same package as STS-2.5)
Weight:	12kg

Exclusive International Distributor: 222 Vista Ave., Pasadena, CA 91107
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