

STRECKEISEN

SEISMIC INSTRUMENTATION

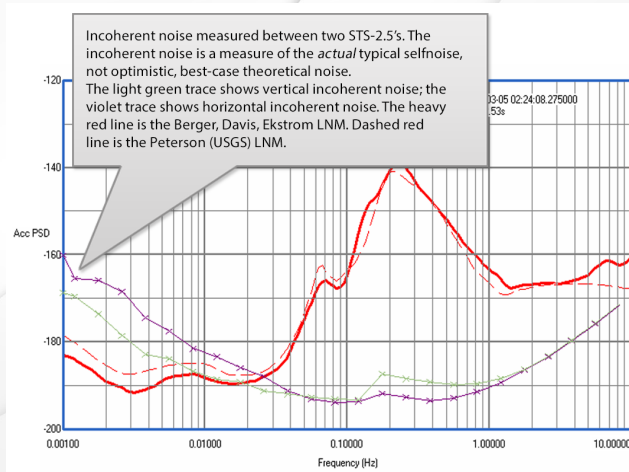


STS-2.5

High-Performance Portable Very Broadband Triaxial Seismometer

FEATURES

- Sensor performance equal to the world-standard STS-2 broadband sensor
- Improved high magnitude signal behavior compared to STS-2
- Improved ruggedness of cabling and hermetically sealed hostbox includes push button, visual status and robust one-press centering
- 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
- Improved tilt range compared to STS-2
- Significantly improved operating temperature range without centering; key requirements in many installations due to daily temperature variation



SPECIFICATIONS

Response:	Flat to ground velocity from 8.33/2.78mHz (120/360s) to 50 Hz
Displacement resolution:	6.4×10^{-13} m/hz @10Hz (=172dB)
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
Generator constant:	2×750 Vsec/m
Parasitic resonances:	>140Hz vertical, >80Hz horizontal
No centering Tilt range:	$\pm 0.03^\circ$, (centering range limit $\pm 0.48^\circ$)
No centering Temperature range:	$\pm 25^\circ$ C
Power supply voltage:	10 - 30VDC, galvanically isolated
Power consumption:	Average: 0.45W, deteriorated state: up to 2.0W
Seismic signals output:	max. ± 20 V differential, 220 Ω serial resistance per line
Auxiliary signal output:	max. ± 10 V single-ended, 1k Ω serial resistance

World-standard, Field-proven - 145 dB
dynamic range - Mutually-aligned 3-components
Robust locking - Low power - Wide temperature range
without adjustment

Calibration input:	max. ± 10 VDC
Control inputs:	3 - 30VDC, 0.5mA, galvanically isolated
Communication:	Push buttons or RS232, 9600 Baud, 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, \varnothing 235mm, height 260mm (same package as STS-2)
Weight:	12kg

Made in Switzerland by
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