### STRECKEISEN SEISMIC INSTRUMENTATION

# STS-2.5

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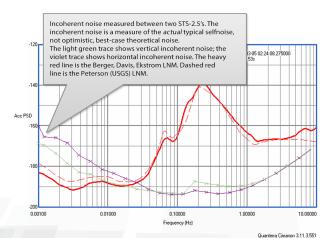
#### High-Performance Portable Very Broadband Triaxial Seismometer

The World standard broadband seismometer other seismometers are compared to, with very low noise, high clipping level, low power, and wide operational temperature range without adjustment.



#### 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



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





Displacement resolution: Clip level:

Clip level normalized to gravity: Generator constant: Parasitic resonances: No centering Tilt range: No centering Temperature range: Power supply voltage: Power consumption: Seismic signals output: Auxiliary signal output: Calibration input: Control inputs: Communication: Operating temperature:

Humidity:

**Enclosure Rating:** 

Various:

Size:

Weight:

**USA** - 222 Vista Ave., Pasadena, CA 91107 Tel (626)795-2220 | Fax (626)795-0868 Flat to ground velocity from 8.33mHz (120s) to 50 Hz

6.4 x 10<sup>-13</sup> m/hz @10Hz (=-172dB)

 $\pm 13$  mm/s ground velocity up to 20Hz Linear derating down to  $\pm 5.3\,$  mm/s ground velocity from 20 - 50Hz

20.50Hz 0.34g / 10Hz 0.17 / 1Hz 0.017g / 0.1Hz 0.0017g / 0.03Hz 0.00055g 2 x 750 Vsec/m

>140Hz vertical, >80Hz horizontal  $\pm$  0.03°, (centering range limit  $\pm$ 0.48°)  $\pm$  25° C

10 - 30VDC, galvanically isolated Average: 0.45W, deteriorated state: up to 2.0W max. ±20V differential, 220Ω serial resistance per line max. ±10V single-ended, 1kΩ serial resistance max. ±10VDC 3 - 30VDC, 0.5mA, galvanically isolated Push buttons or RS232, 9600 Baud, galvanically isolated -20 °C to 70 °C guaranteed, -40 °C to 70 °C functional

0-100% RH IP67 Equivalent

RoHS and CE Compliant Unit

Cylindrical package, ø 235mm, height 260mm(same package as STS-2)

12kg

**Switzerland** - Z.I. Le Tresi 6B, 1028 Preverenges Tel +41 (21) 803-2829 I www.kinemetrics.com 05-01-19