



High quality 5 seconds short band seismometer.

Manufactured using high quality geophones whose frequency response is extended electronically with high thermal stability and low noise components. The transduction factor of every single unit is individually calibrated on the shake table with an accuracy within $\pm 1\%$. Tellus exhibits a flat bandpass between 0.2Hz and 50Hz. The transduction factor is 400V/m/s for the single ended version and 800V/m/s for the differential output. Tellus is manufactured in AISI316 stainless steel housing offering a high level of protection IP68 thus it is ideal for harsh environment and for field use. An aluminum hard coated housing variant is available for whom that prefer to save budget and don't need a rugged version. A leveling bubble and adjustable spikes are provided for an easy regulation and a quick installation, on request it is possible to have other fixing systems: a wall-mount baseplate and longer spikes.

KEY FEATURES

DYNAMIC RANGE > 140dB

FREQUENCY RANGE 0.2 Hz ÷ 100 Hz

TRANSDUCTION FACTOR 400V/m/s (S)
800V/m/s (D)

HIGH ACCURACY

LOW SELF-NOISE

GOOD THERMAL STABILITY

LOW POWER

ROBUST

NO NEED FOR MECHANICAL CLAMPING



APPLICATIONS

PERFORMANCE

INTERFACE

POWER SUPPLY

OP. CONDITIONS

PHYSICAL

Local seismicity
 Induced seismicity
 Nakamura
 Volcano monitoring

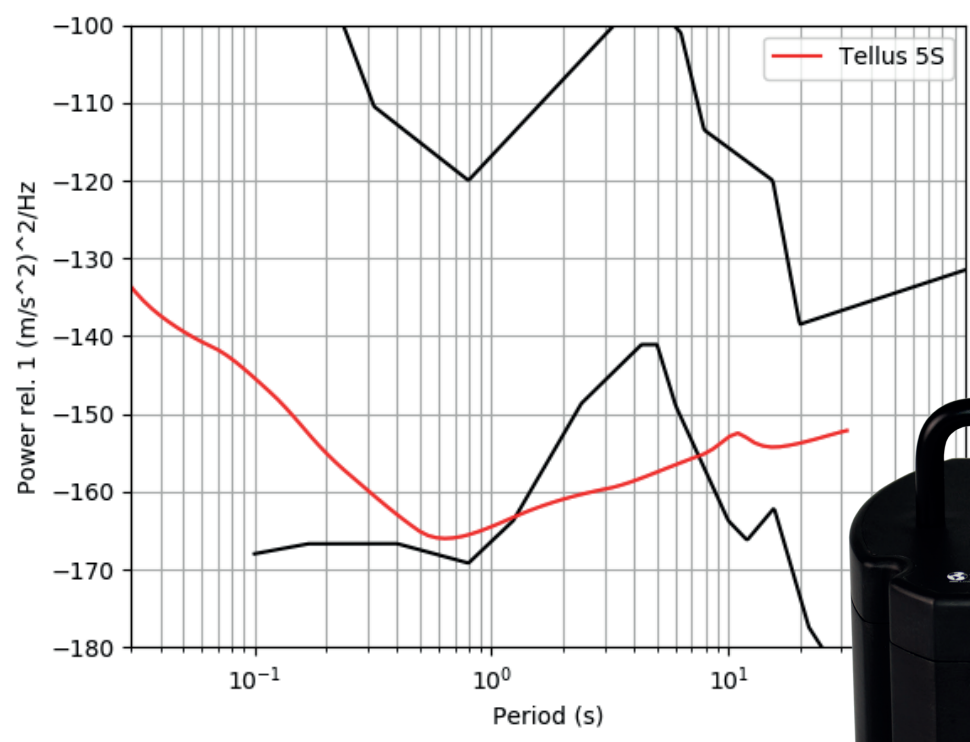
TIPOLOGY Triaxial
BANDWIDTH 1Hz to 50 Hz -3 dB point
DYNAMIC RANGE > 140dB
TRANSDUCTION FACTOR 400V/m/s single ended or 800V/m/s differential
NOISE @ 1HZ < 3nm/s

CONNECTORS 62GB-12E12-10SN, 10-pin
VELOCITY Output 14Vpp single-ended or differential
OUTPUT IMPEDANCE 2 x 100 Ω
TEST INPUT active low

SUPPLY VOLTAGE 5 to 40 V DC isolated input
POWER CONSUMPTION 10mA@12V
PROTECTION Reverse-voltage, overvoltage and surge-protected Isolation:
 Supply power is isolated from signal ground
GROUNDING Predrilled hole

OPERATING TEMPERATURE -20°C to +70°C
STORAGE TEMPERATURE -40°C to +80°C
HUMIDITY 0 to 100%
WEATHER RESISTANCE Rated to IP68

HOUSING AISI 316 stainless steel or aluminum hard coating anodize
LEVELING Integrated leveling bubble and adjustable locking leveling screws for spikes
OD 180mm
HEIGHT 140mm
WEIGHT 5000 g (AISI), 3000g (Al)
CABLE 3m or custom



This datasheet can be reviewed or updated without notice