



TELLUS-2S

SHORT BAND SEISMOMETER

High quality 2 seconds short band seismometer.

Tellus 2s provides great results for local seismic monitoring with an excellent price-performance ratio. Tellus 2s is 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 2s exhibits a flat bandpass between 0,5Hz and 100Hz. The transduction factor of the single ended version is 400V/m/s and 800V/m/s for the differential output.

Tellus 2s 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 as a budget version when a rugged version is not needed.

KEY FEATURES

DYNAMIC RANGE > 140dB

FREQUENCY RANGE 0.5Hz ÷ 120 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 0.5Hz to 120 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 $2 \times 100 \Omega$
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 IP68

HOUSING AISI 316 stainless steel or aluminum hard coating anodize
LEVELING Integrated leveling bubble and adjustable locking leveling screws for spikes
OD 96 mm
HEIGHT 113,40 mm
WEIGHT 2490 g (AISI)
CABLE 3m or custom

