



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 IP67 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.

TELLUS-5s

SHORT BAND SEISMOMETER

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



Local seismicity
Induced seismicity
Nakamura
Volcano monitoring

APPLICATIONS

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

PERFORMANCE

CONNECTORS 62GB-12E12-10SN, 10-pin

VELOCITY Output 30Vpp single-ended or differential

OUTPUT IMPEDANCE $2 \times 100 \Omega$

TEST INPUT active low

INTERFACE

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

POWER SUPPLY

OPERATING TEMPERATURE -20°C to +70°C

STORAGE TEMPERATURE -40°C to +80°C

HUMIDITY 0 to 100%

WEATHER RESISTANCE IP67 (IP68 Optional)

OP. CONDITIONS

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

PHYSICAL

