



## High quality 10 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 0.1Hz and 50Hz, opt. 100Hz. 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.

# TELLUS-10S

## SHORT BAND SEISMOMETER

### KEY FEATURES

DYNAMIC RANGE > 140dB

FREQUENCY RANGE 0.1 Hz ÷ 50 Hz opt 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** 0.1Hz to 50 Hz -3 dB point, opt 100Hz  
**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** IP68

**HOUSING** AISI 316 stainless steel or aluminum hard coating anodize  
**LEVELING** Integrated leveling bubble and adjustable locking leveling screws for spikes  
**OD** 145 mm  
**HEIGHT** 143 mm  
**WEIGHT** 5000 g (AISI), 3000g (Al)  
**CABLE** 3 m or custom

