



## For sensing weak motions from teleseismic events and regional earthquakes.

Tellus broadband is manufactured using high quality MET sensors 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 broadband exhibit a flat bandpass up to 50Hz or optionally to 100Hz. The lower frequency corner is 0.033Hz (30 seconds) for the 30s, 0.016Hz (60 seconds) for the 60s and 0.0083 Hz (120 seconds) for the 120s. The standard transduction factor is 2000V/m/s but customizable in the range 350  $\div$  20000; the output is differential. Tellus broadband is manufactured in aluminum hard coated housing and does not need mass locking or centering and therefore is well-suited to harsh environments.

# TELLUS

## 30s 60s 120s

### BROAD BAND SEISMOMETER

#### KEY FEATURES

DYNAMIC RANGE > 150dB

FREQUENCY RANGE 30s, 60s and 120s up to 50Hz (100Hz opt)

TRANSDUCTION FACTOR 2000V/m/s standard (350  $\div$  20000 opt)

HIGH ACCURACY

LOW SELF-NOISE

GOOD THERMAL STABILITY

LOW POWER

ROBUST

NO NEED FOR MECHANICAL CLAMPING



Regional seismicity  
Teleseismic

APPLICATIONS

**TIPOLOGY** Triaxial  
**BANDWIDTH**

PERFORMANCE

Tellus-30s: 0.033Hz up to 50Hz (100 Hz opt) -3 dB point  
Tellus-60s: 0.016Hz up to 50Hz (100 Hz opt) -3 dB point  
Tellus-120s: 0.0083Hz up to 50Hz (100 Hz opt) -3 dB point  
**DYNAMIC RANGE** > 150dB  
**TRANSDUCTION FACTOR** 2000V/m/s (350 ÷ 20000 custom)  
**MAXIMUM INSTALLATION TILT** ±15°

INTERFACE

**CONNECTORS** 62GB-12E12-10SN, 10-pin  
**VELOCITY OUTPUT** differential 40Vpp  
**OUTPUT IMPEDANCE** 2 x 100 Ω

POWER SUPPLY

**SUPPLY VOLTAGE** 10 ÷ 18 VDC (12VDC typ)  
**POWER CONSUMPTION** 25mA@12V (10mA low power version)  
**PROTECTION** Reverse-voltage, overvoltage and surge protected  
**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** Aluminum hard coating anodize  
**LEVELING** Integrated leveling bubble and adjustable locking leveling screws for spikes

**COMPACT VARIANT**  
**OD** 180mm  
**HEIGHT** 140mm  
**WEIGHT** 1600 g (Al)  
**CABLE** 3m or custom

**FULL SCALE**  
**OD** 200mm  
**HEIGHT** 220mm  
**WEIGHT** 9000 g (Al)  
**CABLE** 3m or custom

Tellus broadband family is available in two versions: the **Tellus Compact** which is small and light and the **Tellus Full Scale** which offers the highest performance. **Tellus PH** is a variant of the compact which is ideal for post hole installations.

