



## High Performance compact triaxial broadband seismometer.

Tellus-C is a high quality compact broadband triaxial seismometer designed for easy deployment and safe transport. Tellus-C is based on Galperin configuration which allows to more easily distinguish external noise sources from internal ones and achieve higher performance. Tellus-C can be ordered with a flat band-pass between 120s-20s and 100Hz. The lower frequency corner can be customized at the order. The transduction factor is 2000V/m/s, the output differential 40Vpp. Tellus-C is manufactured in painted aluminum housing offering a high level of IP68K protection making it ideal for harsh environment and for field use. Tellus-c is robust magnetic shielded and exhibits a low temperature sensitivity.

## **TELLUS-C** Compact broad band Seismometer

## **KEY FEATURES**

DYNAMIC RANGE > 135dB in RANGE 0.1-10Hz

FREQUENCY RANGE 120s-20s ÷ 100 Hz

TRANSDUCTION FACTOR 2000V/m/s (S)

HIGH ACCURACY

LOW SELF-NOISE

GOOD THERMAL STABILITY

LOW POWER

ROBUST, COMPACT AND LOW WEIGHT

PRECISION FACTORY CALIBRATION



National Seismic Networks / Site Response	
Regional and Tele-seismic Events / Magnitude Estimation	
Restitution of ground displacement / Event Detection and Location	
Volcano eruption / Early Warning	

TIPOLOGY Galperin arrangement, Force feedback capactive transducer VELOCITY OUTPUT XYZ XYZ (H and V motion) or UVW (masses motion) BANDWIDTH 120-20s to 100 Hz (customizable) DYNAMIC RANGE > 135dB between 0.1 Hz and 10 Hz TRANSDUCTION FACTOR 2000V/m/s (customizable) SELF NOISE < USGS NLNM between 0.03 to 10Hz OUTPUT Velocity differential 40Vpp XYZ Mass position Single 10Vpp CLIP LEVEL 13mm/s TILT TOLERANCE +/- 3° OUTPUT IMPEDANCE 2x100 Ohm CALIBRATION Via dedicated calibration coils (analog test signals) MASS LOCKING AND CENTERING Not necessary	PERFORMANCE
CONNECTORS MIL-STD 26 pin male mounted on top DIGITAL INTERFACE RS232 commands and diagnosis CONTROL LINES GPIOs and Analog Outputs	INTERFACE

STELLua-C

SUPPLY VOLTAGE 9 to 36 V DC isolated input POWER CONSUMPTION 40mA@12V PROTECTION Reverse-voltage, overvoltage and surge-protected Isolation GROUNDING Predrilled hole REGULATION CE compliance	- POWER SUPPLY -
OPERATING TEMPERATURE -20°C to +50°C STORAGE TEMPERATURE -40°C to +80°C HUMIDITY 0 to 100% WEATHER RESISTANCE IP68K	<b>OP. CONDITIONS</b>
HOUSING aluminum treated against corrosion LEVELING integrated leveling bubble and adjustable locking leveling screws for spikes available for different surfaces OD 100 mm HEIGHT 125 mm WEIGHT 1,5 Kg CABLE 3m or custom Shock MIL STD 810G	



