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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 ±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 wallmount baseplate and longer spikes.

TELLUS-10S Short band seismometer

(EV FEATURES

DYNAMIC RANGE > 140dB

FREQUENCY RANGE 0.1 Hz \div 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

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Local seismicity Induced seismicity Nakamura Volcano monitoring	- APPLICATIONS -
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	- INTERFACE

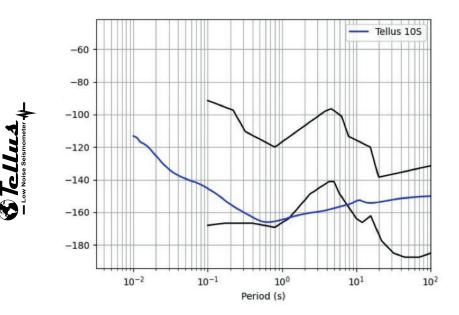
SUPPLY VOLTAGE 5 to 40 V DC isolated input **POWER SUPPLY** POWER CONSUMPTION 10mA@12V **PROTECTION** Reverse-voltage, overvoltage and surge-protected Isolation: Supply power is isolated from signal ground **GROUNDING** Predrilled hole **OPERATING TEMPERATURE** -90°C to ±70°C

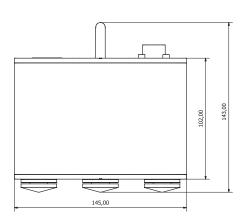
OPERATING TEMPERATURE -20°C to +70°C	ONS
STORAGE TEMPERATURE -40°C to +80°C	Ē
HUMIDITY 0 to 100%	ONI -
WEATHER RESISTANCE IP68	0F. C

HOUSING AISI 316 stainless steel or aluminum hard coating anodize	
LEVELING Integrated leveling bubble and adjustable locking leveling screws	
for spikes	GAL
OD 145 mm	VSIC
HEIGHT 143 mm	E

WEIGHT 5000 g (AISI), 3000g (AI)

CABLE 3 m or custom





This datasheet can be reviewed or updated without notice