



Specifically designed for borehole installation down to 300m.

Tellus-BH can be equipped with one of Lunitek's velocity sensor: short band (1 second - 5 seconds) or broadband (30-60-120 second). All sensors are manufactured using 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-BH short band is equipped with a self-supporting cable so that an additional rope is not needed. Broadband version of Tellus-BH, which are heavier, are equipped with a fixing point for a rope along with the signal cable. Tellus-BH is manufactured in stainless steel (AISI316) and does not require mass locking or centering. A passive clamping system is provided on request.

Tellus-BH provides excellent long term stability, reliable measurements and is ideally suited to challenging sites where measurements can be improved by using borehole installation.

TELLUS-BH BOREHOLE SEISMOMETER

Y FEATURES

DYNAMIC RANGE > 140dB FOR SHORT BAND, >150dB FOR BROADBAND

FREQUENCY RANGE 1, 5, 30, 60 AND 120 SECONDS UP TO 50HZ (100HZ OPT)

TRANSDUCTION FACTOR 400 V/m/s (SB) and 2000 V/m/s (BB)

HIGH ACCURACY

LOW SFLF-NOISE

GOOD THERMAL STABILITY

LOW POWER

ROBUST

NO NEED FOR MASS CENTERING OR MASS LOCKING

LUCITEK I 100% ITALIAN PRODUCT

Local Seismicity	<u>~</u>
Induced Seismicity	LIONS
Regional seismicity	CA
Teleseismic	교
Oil and gas exploration	V

	_
TIPOLOGY Triaxial	
BANDWIDTH	
TELLUS 1S 1Hz up to 100Hz	
TELLUS 5S 0.2Hz up to 50Hz	띓
TELLUS 30S 0.033Hz up to 50Hz (100 Hz opt) -3 dB point	M
TELLUS 60S 0. 0.016Hz up to 50Hz (100 Hz opt) -3 dB point	PERFORMANCE
TELLUS 120S 0.0083Hz up to 50Hz (100 Hz opt) -3 dB point	H
DYNAMIC RANGE > 140dB (shortband) > 150dB (broadband)	
TRANSDUCTION FACTOR 400 V/m/s (shortband) 2000V/m/s (broadband)	
MAXIMUM INSTALLATION TILT ±15°	

CONNECTOR Teledyne AG, 10-pin,	- Se
VELOCITY OUTPUT Differential 15 or 40Vpp	- F
OUTPUT IMPEDANCE $2 \times 100 \Omega$	<u>F</u>



OPERATING TEMPERATURE -20°C to +70°C	
STORAGE TEMPERATURE -40°C to +80°C	
HUMIDITY 0 to 100%	
WEATHER RESISTANCE Rated to IP68, immersible	

TELLUS-1S-BH	
OD 70mm	
HEIGHT 510mm	
WEIGHT 8000 g (AI)	
TELLUS 5S, 30S, 60S, 120S	-ВН
OD 130mm	
HEIGHT 220mm	
WEIGHT 10000 g (AI)	



