



TELLUS-R

LOW NOISE
ROTATIONAL SEISMOMETER

KEY FEATURES

DYNAMIC RANGE 117 DB

FREQUENCY RANGE 0.01HZ ÷ 100Hz

TRANSDUCTION FACTOR 50 V/rad/s

HIGH ACCURACY

LOW SELF-NOISE

GOOD THERMAL STABILITY

LOW POWER

ROBUST

Rotational seismometer.

Tellus-R is the basis for constructing the most modern seismic systems recording all six components of mechanical motion. Tellus-R has a high sensitivity for the detection of rotational modes of earthquakes, a wide dynamic and frequency range.

A characteristic feature of the Tellus-R is low noise with minimal power consumption, which is a significant advantage over electromechanical, fiber-optic and other types of rotational motion sensors.

The device is capable of operating at any orientation in space over a wide range of temperatures.



TECHNICAL FEATURES

CHANNELS X Y Z rotational
RESOLUTION 6*10⁻⁸ rad/s at 1Hz
OUTPUT SIGNAL ±20V differential, 0.4 rad/s
DYNAMIC RANGE 117 dB
SELF-NOISE PSD -125dB (ref. 1 rad/s² Hz)
FREQUENCY RANGE 0.033-50 Hz (opt. 0.01 -100Hz)
GENERATOR CONSTANT 50 V/rad/s
MASS CENTERING None
INSTALLATION ANGLE Any
CALIBRATION INPUT 1:1 (optional)

POWER SUPPLY 10 ÷ 18 Vdc
POWER CONSUMPTION 30mA
DIMENSIONS Diameter 180 mm, Height 140 mm (Body)
WEIGHT 2 kg
OPERATING TEMPERATURE RANGE -15 ÷ +55 °C (opt. -40 ÷ +55 °C)
PROTECTION GRADE IP67 (IP68 optional)
COMPLIANCE CE
HOUSING MATERIAL Anodized Aluminium
CABLE 3m standard or custom
CONNECTOR PT06E-14-19P(SR)

TECHNICAL FEATURES

