

ACC System

SPILBA accelerometer system integrates in a single set Wireless unit (with memories ranging from 16GB to 64GB). The system logs linear and gyro acceleration in three axes.

Each set includes one master unit and up to four slaves in a distance up to 50 meters.

Master systems includes a GNSS device to synchronize and geolocate the samples of all units.

The system is oriented to low and high frequency vibrations studies in many different areas (transportation, railroads quality standards, etc).



Accelerometer Specifications

Axes	X,Y,Z
Max Sampling Rate	1000Hz
Range	±4G a ±200G
Resolution	0.0001G

Gyro Specifications

Axes	X,Y,Z
Max Sampling Rate	8000Hz
Range	±250°/s
Resolution	0.01°/s

GNSS Specifications

Frequency Band	GPS (L1) GLONASS (L1) Galileo (E1) Beidou (B1)
Sampling Rate	10Hz
Accuracy (PEC50*)	<1.5m
Sensibility	Acquiring -148 dbm Navigation -163 dbm Tracking -165 dbm
Channels	99 searching 33 tracking simultaneously

Note: *CEP = Circular error probable 50 indicates that there is a 50% probability that the measurement falls within a circle of radius established by the accuracy.