



Technical Data of W2Z Wireless SEISMO



> WATER PROOF IP68 <



Structure	2.4 GHz multichannel seismic system
Working Range	500m in open field
Channels number for MOM unit	256
Resolution in Acquisition	24 bit
AD Converter	Successive Approximations with down-sampling and averages
Sampling Frequency (Fs)	250Hz, 500Hz, 1000Hz, 2000Hz, 4000Hz, 8000Hz, 16000Hz
Number of samples in trigger mode	128, 256, 512, 1024, 4096, 8192
Trigger	A dedicated radio unit works for triggering; it works in opening or closing contact.
Power	Each unit is equipped with a Li-Ion battery. MOM unit is powered by USB and battery.
Autonomy	Some days of normal operations in seismic campaign
Recharging	Common wall adaptor with USB port. At least 8 hours for completely discharged battery
Battery Control	Charge state visible on software. Hardware equipped to prevent battery damage.
Bandwidth	Up to 800Hz, 2 poles low pass filter
Input impedance	1500 ohm
Nyquist frequency	8000Hz at every Fs
Signal/RSM noise ratio	>124dB at Fs=1000Hz, geophonic input shorted
Software	Application for Windows XP, 7, 8 and 10 allows easy setting of all acquisition parameters and produces a seg2 file for further analysis
Geophones	Each Unit (corresponding to a channel) can be connected to any Hz sensors

Continuous acquisition (for 2 hour or more) is under development. This feature should allow acquisition of several units at sampling frequency of 500Hz or less, for passive seismic survey.

Samples number will be extended to 16384, if market requires this necessary.