



Wireless Remote Unit (WRU)

Features and Specifications

Single station 24 bit digital acquisition
Built-in self tests
Built-in GPS for self discovery
License free 2.4 GHz ISM band
Autonomous deployment with LED status indicators
Skip healing telemetry
Synchronous and asynchronous recording
Continuous and realtime data collection
Scalable system architecture
Distributed clock discipline to GPS

Industry standard geophone connector
Intelligent Lithium-Ion battery with self contained charging circuitry
Operating temperature -40°C to $+75^{\circ}\text{C}$
Humidity 0 to 100%
Gain Selections: x1, x4, x16, x64
Sample Interval: $\frac{1}{4}$, $\frac{1}{2}$, 1, 2, 4 milliseconds
0.1% channel to channel matching error
Stackable rugged aluminum enclosure
Integral hot swappable battery packs

Maximum input signal level

1.768 VRMS @ x1 gain

Total System Dynamic Range

143 dB @ 2 msec

Instantaneous Dynamic Range

125 dB @ x1 gain

124 dB @ x4 gain

117 dB @ x16 gain

106 dB @ x64 gain

Anti-alias filter

Passband edge (0.01dB ripple) 0.75 Nyquist

Stop band attenuation >120 dB at Nyquist

-3dB point is at 0.8 Nyquist

Linear or minimum phase

Common Mode Rejection

>100 dB

Equivalent Input Noise @ 2 msec

0.93 μV @ x1 gain

0.27 μV @ x4 gain

0.14 μV @ x16 gain

0.13 μV @ x64 gain

Total Harmonic Distortion

0.0002% @ 7.1825 Hz.

Dimensions

5.79" W x 2.83" H x 9.01" L

(14.7 cm x 7.2 cm H x 22.9 cm L)

Weight (w/o battery packs)

4.02 lbs. (1.83 Kg.)

Total Weight with 2 Batteries and Antenna

7.06 lbs. (3.21 Kg)

Specification subject to change without notice. For the most current specifications, contact sales at 832-532-5059.