

Seismic Data Channel

3C

ADC Resolution

24 bit Delta Sigma

Sample Interval

0.5ms, 1ms, 2ms, 4ms

Preamplifier Gain

Programmable 0dB to 42dB in 6dB steps

Low Cut Filter

None

Anti-alias Filter

- 206.5Hz @2ms, 413 Hz @1ms
- Linear Phase or Minimum Phase

Operating Temperature Range

-30° C to +75° C

Operational Autonomy

- 12 Hours per day: +110 days
- 24 Hours per day: +60 days

Weight

2.1 Kg

Dimensions

2.75cm x 19.1 cm

Battery

- 52.8 Ah Li-Ion
- Charge Temperature Range: 0° C ~ +45° C
- Cycle Life: > 500 cycles to 80%

Acquisition Channel

@2ms sample interval, 25° C, 31.25 Hz

- Maximum input signal: 1768 mVrms @0dB
- Total Harmonic Distortion: 0.0001% @31.25Hz
- Instantaneous Dynamic Range: 127dB @2ms
- System Dynamic Range: 148dB
- Equivalent Input Noise:
 - 1500 nV @0dB
 - 400 nV @12dB
 - 160 nV @24dB
- Gain Accuracy: 0.25% unit to unit
- Input Impedance: 100k Ohm
- Timing Accuracy: +/- 12.5µsec customizable at client request

Instrument Test

Internal Noise, Total Harmonic Distortion, Impulse Response

Sensor Test

- Resistance
- Impedance
- Noise

Sensor

- Internal, 3 Orthogonal Geophones
- 2 Hz (+/- 20%) / 5 Hz (+/- 7.5%)
- 22 V/m/s (+/- 20%) / 80 V/m/s (+/-5%)
- Other geophones available upon request

Memory

64 GB standard (upgradeable to 128 GB)