

## Seismic Data Channel

3C

## ADC Resolution

24 bit Delta Sigma

## Sample Interval

0.25ms, 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: 30 days
- 24 Hours per day: 15 days

## Weight

900 g

## Dimensions

6.9 cm x 19.1 cm

## Battery

- 13.4 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: 109k 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%) / 4.5 Hz (+/- 0.5Hz)
- 22 V/m/s (+/- 20%) / 82 V/m/s (+/- 7.5%)
- Other geophones available upon request (size limited)

## Memory

32 GB standard (upgradeable to 128 GB)

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