

Seismic Data Channel

1C

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

-40° C to +75° C

Operational Autonomy

- 1440 Hours
- **12 Hours per day:** 120 days
- **24 Hours per day:** 60 days

Weight

1.6 Kg

Dimensions

5.35 cm x 20.9 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

Seismic Test

- Internal, Single Geophone
- 5Hz or 10 Hz +/- 3.5%
- 85.8 V/m/s +/- 3.5%
- Other geophones available upon request

Memory

8 GB standard (expandable to 16, 32 or 64 GB)

