

Seismic Data Channel

1C

ADC Resolution

24 bit Delta Sigma

Sample Interval

0.25ms, .5ms, 1ms, 2ms, 4ms

Preamplifier Gain

Programmable 0dB to 42dB in 6dB steps

Anti-alias Filter

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

Low Cut Filter

None

Operating Temperature Range

-40° C to +75° C

Operational Autonomy

- 540 Hours
- 12 Hours per day: 45 days
- 24 Hours per day: 22.5 days

Weight

530g

Dimensions

• 6.9 cm x 20.9 cm

Battery

- 13.4Ah 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 and channel to channel
- 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

- External
 - SHz or 10 Hz +/- 3.5%
- Other geophones available upon request

Memory

8 GB standard (expandable to 64 GB)

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