

Seismic Data Channel

4C

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

-40° C to +75° C

Operational Autonomy

- 1320 Hours
(55 days)

Weight

1.7 Kgs

W/Sensor Package & Tackle: 10kgs

Dimensions

367 mm x 98 mm x 98mm

Battery

- 22.4 Ah 3-Series Li-Ion (242 Wh)
- Charge Temperature Range: 0°
C ~ +45° C
- Cycle Life: > 300 cycles to 70%

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, Damping Natural Frequency

Sensors (External)

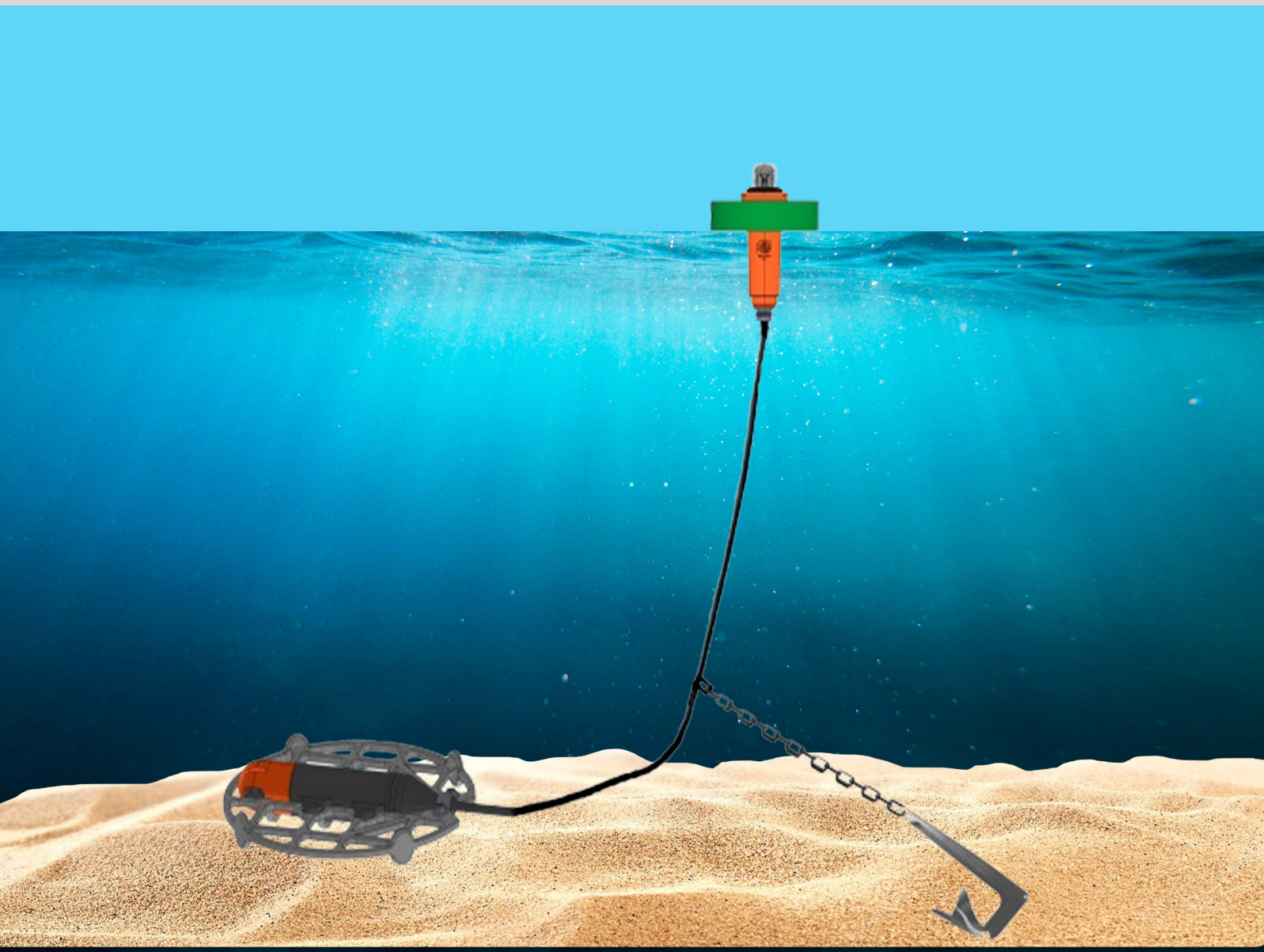
- 3 Orthogonal Geophones, 1 Hydrophone
- 14 Hz (-7%/+13%) / 10 Hz (+/-10%)
- 39 V/m/s +/- (- 14%/+6%)/14 V/bar (+/-15%)
- Other geophones available upon request

Memory

64 GB Standard

NuSeis™ NRU ES 4™

Deployment



Learn More at www.geophysicaltechnology.com

