Typical Node Specifications

Seismic Data Channels: 3
ADC Resolution: 24 bits
Sample Interval: 0.5, 1, 2, 4 ms
Preamplifier Gain
0 dB to 36 dB in 6 dB steps
Anti-Alias Filter
206.5 Hz @ 2 ms (82.6% of Nyquist)
Selectable - Linear Phase or Minimum Phase
DC Blocking Filter
1 Hz to 60 Hz, 1 Hz increments,
6 dB/Octave, or OUT
Operating Temperature Range
-40˚C to +60˚C
Operating Life
35 days (840 hours) continuous
(@ 2ms, 25˚C)
60 days Segmented (12 hours ON/
12 hours sleep @ 2 ms, 25˚C)

Acquisition Channel
(@ 2 ms sample interval, 25˚C, 31.25 Hz,
internal test, unless otherwise indicated)
Total Harmonic Distortion
0.0002% @ 12 dB Gain, -3 dB Full Scale
Equivalent Input Noise
0.75 µVrms @ 0 dB
0.2 µVrms @ 12 dB
0.1 µVrms @ 24 dB
0.1 µVrms @ 36 dB
Full Scale Input Signal
2500 mV peak @ 0 dB
625 mV peak @ 12 dB
156 mV peak @ 24 dB
39 mV peak @ 36 dB
Gain Accuracy: 0.50%
Dynamic Range
127 dB @ 0 dB Preamplifier Gain
Common Mode Rejection Ratio
> 110 dB
DC Offset
< 10% of Input Noise with DC Blocking Filter IN
Timing Accuracy
±10 microseconds GPS Disciplined

Instrument Tests
Internal Noise (preamp input terminated)
Internal THD
Internal Gain Accuracy
Internal CMRR
Internal Impulse
Sensor Impedance
Sensor DC Resistance

Sensor
3 Internal Geophones,
Orthogonal Configuration
10 Hz – 70% damped,
2 V/i/s (78.7 V/m/s)
5 Hz – 70% damped,
1.95 V/i/s (76.7 V/m/s)

Battery
Type: Rechargeable Li-Ion
Charging Temperature Range
+5˚C to +40˚C
Recharge Time: <4 hours

Physical
Weight: 6.2 lb (2.8 kg), including spike
Dimensions: 4.6 in (11.7 cm) diameter by
6.4 in (16.3 cm) high
Detachable Spike: 4.6 in (11.7 cm) long,
detachable