Typical Node specifications

Seismic Data Channels: 3
ADC Resolution: 24 bits
Sample Interval
0.5, 1, 2, 4 milliseconds
Preamplifier Gain
0 dB to 36 dB in 6 dB steps
Anti-Alias Filter
206.5 Hz @ 2ms (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 (720 hours)Continuous @ 2ms
60 days Segmented (12 hours ON/12 hours SLEEP)
Acquisition Channel
(@ 2ms 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
DC Offset <10% of Input Noise with DC Blocking Filter IN
Gain Accuracy: 0.50%
Dynamic Range
127 dB @ 0 dB Preamplifier Gain
Common Mode Rejection Ratio
>110 dB
Timing Accuracy
±10 μseconds GPS Disciplined
Instrument Tests
Internal Noise (preamp input terminated)
Internal THD
Internal Gain Accuracy
Internal CMRR
Internal Impulse
Sensor Impedance
Sensor Step Response
Sensor DC Resistance
Sensor
3 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

FairfieldNodal reserves the right to change specifications without notice to provide the best possible product.
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