

ZLAND 3C



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

30 days (720 hours) Continuous @ 2ms

55 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 μ Vrms @ 0 dB

0.2 μ Vrms @ 12 dB

0.1 μ Vrms @ 24 dB

0.1 μ Vrms @ 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

>90 dB

Timing Accuracy

\pm 10 μ seconds UTC, GPS Disciplined

Instrument Tests

Internal Noise (preamp input terminated)

Internal THD

Internal Gain Accuracy

Internal CMRR

Internal Impulse

Sensor Impedance

Sensor Step Response

Crossfeed

Sensor

Orthogonal Configuration

Vertical Geophone 10 Hz,
70% damped, 2 V/i/s (78.7 V/m/s)

Horizontal Geophones 10 Hz,
70% damped, 2 V/i/s (78.7 V/m/s)

Battery

Type: Rechargeable Li-Ion

Charging Temperature Range
+3 °C to +40 °C

Recharge Time: < 3 hours

Physical

Weight: 5.5 lb (2.5 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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