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

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

 $0.2 \, \mu Vrms @ 12 \, dB$

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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