

GCL-3

Connectorless Recorder

PATENT PENDING



Connectorless Autonomous Data Recorder

- No connectors
- Continuous cable-free autonomous 3-component recording
- 24-bit resolution and 124 dB instantaneous dynamic range
- GS-SMG (10 Hz) vertical and horizontal geophones
- Battery life: 40 days @ 24 hrs/day operation
- Built-in full resolution test generator
- Solid-state flash memory: 32 or 64 GB

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Geospace Connectorless Recorder

MECHANICAL SPECIFICATIONS

Length x Width	14.0 x 11.1 cm	5.5 x 4.375 in.
Height	17.81 cm	7.01 in.
Weight	1.26 kg	2.77 lbs.
Operating Temperature Range	-40°C to +60°C	-40°F to +140°F

ELECTRICAL SPECIFICATIONS

Digitized Recording Station:	3 Channel, 24-bit A/D Digitizer GS-SMG (10 Hz) Vertical/Horizontal Geophones
Digitization	24-bit Delta-Sigma
Sample Interval	0.25, 0.5, 1, 2, 4 ms
Pre-amplifier Gains	0, 6, 12, 18, 24, 30, 36dB
Maximum Input Signal	1.77 Vrms
Equivalent Input Noise (@2ms sample interval)	0.17 μ Vrms
Gain Accuracy	Better than 1%
Anti-alias Filter	83% Nyquist
Instantaneous Dynamic Range	124 dB @2ms sample interval
THD (Instrument)	0.0005%
THD (Geophone)	< 0.15%
Flash Memory	10 or 20 GB per channel
Frequency Response	1 Hz – 1650 Hz @ ¼ ms sample interval
Battery Module	40 days operation
Geophone Sensitivity	GS-SMG (10 Hz) 2 V/in/sec
Frequency	10 Hz

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