

GCL-3

CONNECTORLESS RECORDER



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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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	

7007 Pinemont Drive • Houston, Texas 77040 USA
www.geospace.com • T: 713-986-4444 • F: 713-986-4445

Geospace Technologies, Canada
2735 - 37th Avenue N.E.
Calgary, Alberta,
T1Y 5R8 Canada
403 250-9600

Geospace Technologies, China
Room 700, 7th Floor
Lido Office Tower, Lido Place
Jichang Road, Jiang Tai Road
Beijing, 100004, P.R.China
011 (86) 10 6437 8768

Geospace Technologies
Sucursal Sudamericana
Carrera 127-22 G 28 Int. 30
Agrupación Industrial La Esperanza
Bogotá, Colombia
011-57-1-742-7414

Geospace Technologies, Eurasia
Kirovogradskaya, 36
Ufa, Baskortostan
Russia 450001
011 (7) 3472 25 39 73

Geospace UK
F3 Bramingham Business Park,
Enterprise Way, Luton
Bedfordshire LU3 4BU, England
011 44 (0) 7775 688 467