

# GCL CONNECTORLESS RECORDER



## Connectorless Autonomous Data Recorder

- No connectors
- Continuous cable-free autonomous recording
- 24-bit resolution and 124 dB instantaneous dynamic range
- Either GS-ONE-LF (5 Hz) or GS-ONE (10 Hz) vertical geophone
- Battery life: 60 days @ 24 hrs/day operation
- Built-in full resolution test generator
- Solid-state flash memory: 16 or 32 GB

# GCL CONNECTORLESS RECORDER

## MECHANICAL SPECIFICATIONS

Length x Width	14.0 x 11.1 cm	5.5 x 4.375 in.
Height (without spike)	12.7 cm	5.0 in.
Weight (with spike)	1.18 kg	2.6 lbs.
Operating Temperature Range	-40°C to +60°C	-40°F to +140°F

## ELECTRICAL SPECIFICATIONS

Digitized 1C Recording Station:	1 Channel, 24-bit A/D Digitizer GS-ONE-LF (5 Hz) Vertical Geophone —or— GS-ONE (10 Hz) Vertical Geophone	
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 $\mu$ 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	16 or 32 GB per channel	
Frequency Response	1 Hz – 1650 Hz @ ¼ ms sample interval	
Battery Module	60 days operation	
Geophone Sensitivity	GS-ONE-LF (5 Hz) 2.27 V/in/sec —or— GS-ONE (10 Hz) 2 V/in/sec	
Frequency	5 Hz —or— 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