

PIONEER

SEISMIC DATA RECORDER



Small, Lightweight Autonomous Data Recorder

- Less than 0.5 kg (1 lb.)
- Wireless data download and charging
- Continuous cable-free autonomous recording
- 24-bit resolution and 122 dB instantaneous dynamic range
- GS-5 vertical geophone (5 Hz)
- Battery life: 50 days @ 24 hrs/day operation
- Solid-state flash memory: 16 or 32 GB



PIONEER SEISMIC DATA RECORDER

MECHANICAL SPECIFICATIONS

Length x Width	8.8 x 8.2 cm	3.48 x 3.23 in.
Height (without spike)	9.4 cm	3.7 in.
Weight (with spike)	.45 kg	1 lb.
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-5 Vertical Geophone	
Digitization	24-bit Delta-Sigma	
Sample Interval	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)	0.28 μ Vrms	
Gain Accuracy	Better than 1%	
Anti-alias Filter	83% Nyquist	
Instantaneous Dynamic Range	122 dB @2ms sample interval	
THD (Geophone)	< 0.2%	
Flash Memory	16 or 32 GB per channel	
Frequency Response	1 Hz – 830 Hz @ ½ ms sample interval	
Battery Module	50 days operation	
GS-5 Geophone Sensitivity	2.0 V/in./s +/-5%	
Geophone Frequency	5 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
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