

OptoSeis™ Downhole Tool



SYSTEM SPECIFICATIONS

Sensor Station Configuration	3-Component All-Optical Accelerometer
System Size/Capacity	Compact interrogator footprint: a single 19" rack services thousands of channels
System Design Life	7 Years
Telemetry System	Cabled, all-optical, frequency and wavelength-division multiplexed Michelson interferometer based accelerometer
Instrumentation Integration	Modular and flexible. (Optional integration with on-prospect processing, containerized, Stand-alone IEC certified module with self-contained UPS, HVAC, workspace)
Sample Interval	Field programmable: 0.25 ms to 8 ms
Sensor Operational Bandwidth	2 to 200 Hz
System Noise Floor	50 ng/√Hz spectral level typical
Instantaneous Dynamic Range (2 ms sample interval)	200 dB single-tone @ 2 Hz; 186 dB @ 15 Hz; 170 dB @ 100 Hz
Operating Temperature	-40 to 150 °C
Maximum Operating Pressure	20,000 psi
Cable Configuration	Highly flexible: Can support sensor station spacings of a few meters to 10s of km
3-Component Shuttle Diameter	63 mm (2.50 in.)

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