

GSP – Geochain System Panel



Main Features

- Surface Recorder and PC interface.
- Up to 16 analogue channels.
- 24 bit delta sigma convertors.
- Built in firing circuit.
- Optional GPS time stamp.
- Full instrument tests function.
- USB interface.
- Use standard PC running ACQ software.

Functionality

- This surface recording panel can have a maximum of sixteen analogue seismic channels along with the standard digital input section. The panel can therefore be used with any analogue borehole seismic tools or with our latest Geochain[™] digital string.
- Firing Circuit (FC) allows GSP to trigger a single air gun without any additional equipment.
- **GSPIO** module includes: external source control interface, power control circuitry and controls the FC.
- Dual seismic interface (DSI) allows between 2-16 Analogue channels.
- CPU2 offers both a GPS time stamp and depth encoded interface.
- **Test signal generator** (TSG) able to generate either precision sine wave signals or single sample impulses.

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GSP-1 General	
Airgun firing pulse:	Isolated 60V, 30ms pulse
Source control outputs:	4, opto-isolated
Timebreak inputs:	3, opto-isolated
Remote start inputs:	1, opto-isolated
Test system:	Fully automatic with comprehensive report generation
PC Interface:	USB
Power requirements:	95-260V ac. 50/60 Hz universal input, 50 watts
Enclosure:	Standard 19" rack mounting

GSP-1 Digital section

RS422 (As 2065 DIF module option) Interface: Cable equalisation: Fully automatic using internal DSP chip Format: Software configured to match system

GSP-1 Analogue section

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No. of channels:	2-16
Sample intervals:	0.25, 0.5, 1.0, 1.25, 2.0, 2.5, 4.0ms
A/D convertor:	24 bit Delta-Sigma
Dynamic Range:	<112dB @ 0dB pre-gain (minimum)
Distortion:	<0.01% (0.003% typical) @31.25 Hz, 15V pp signal
Noise:	<10uV rms @ 1ms, 0dB pre-gain
Input:	Differential, 20V pp max
Inter-channel skew:	Zero

Control Panel for







Timing Accuracy:



10ppm





Gamma Tools





