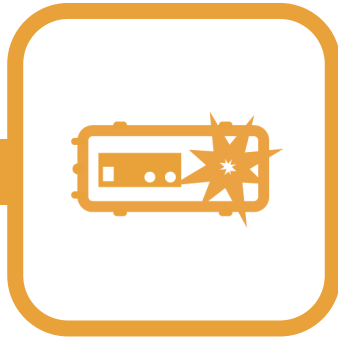## ASL
Avalon Sciences Ltd

RSS Geochain System Panel

Main Features

- Automatic source array synchronisation.
- Lightweight control umbilical.
- Each unit may control up to 32 airguns.
- Timing accuracy 0.1ms.
- Digital source signature telemetry.
- Accepts any transducer signal.
- GPS time stamp option.
- Source switching automatically controlled from within acquisition system.
- SEG-Y recording.
- PC control via USB.
- Standalone operation with GSP-1 or with third party acquisition systems.
- Synchronisation from hydrophone as well as from timing coils.
- New SIU output analogue hydrophone signal using AHA.

Functionality

- The RSS-2 array source controller is a flexible and cost effective solution for the control of clustered "airgun" arrays. It is a development of the highly acclaimed and field proven RSS-1.
- Each RSS-2 panel can be configured as a master or slave to eliminate common backup problems and equipment mix ups. Each RSS-2 unit can control up to 7 Source Interface Units (SIU) to fire up to 32 airguns.
- A major revision of the software now allows the offset source information and log files to be transmitted to the rig. This allows the seismic engineer to monitor boatside operations. A new gun simulator unit is also available which plugs into an SIU to exercise the firing system and check deck side cables and SIU units

Functionality

RSS-2 Specifications

Number of guns:	4 per SIU, maximum 32
Control:	PC via USB port
Transmission:	Radio modem
Firing integrity:	Encoded multiple tone sequence
Sensor type:	Hydro, timing coil, Bolt sensor
Synchronisation:	Better than 0.1ms
Gun firing pules:	60V (SELV compliant)
Gun firing pulse width:	Programmable
Gun fire minimum interval:	> 2s
A/D Converter:	24 bit Delta-Sigma
Power:	90-260V AC or 12V DC
Operating temp:	0-40°C (SIU-10 to 50)
Dimensions:	3U 19" rack mount
Weight (RSS-2 Panel):	36.4 lbs (16.5 kg)

Compatible with

GSP	ACQ Software	Impulsive Sources	3rd Party Recorders

ISO 9001
FM 555054