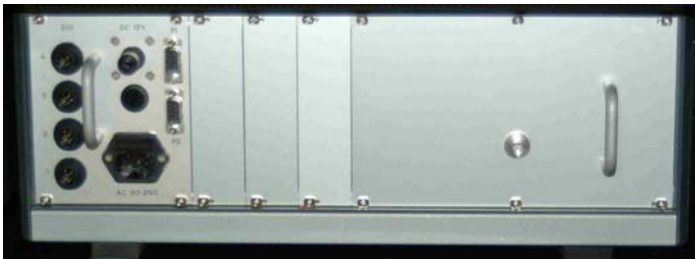


RSS-2 VSP source controller



- Automatic source array synchronisation
- Windows based software
- Each RSS-2 controls up to 16 sources
- Timing accuracy 0.1ms
- Source signature telemetry
- Readout of reservoir and gun pressure
- Accepts hydrophone, shuttle, T/B coil etc
- Automatic source switching from software when using Avalon Sciences recording systems.

The RSS-2 VSP source controller is a flexible and cost effective solution for the control of clustered airgun arrays. The system interfaces to a PC running Windows via the USB interface.

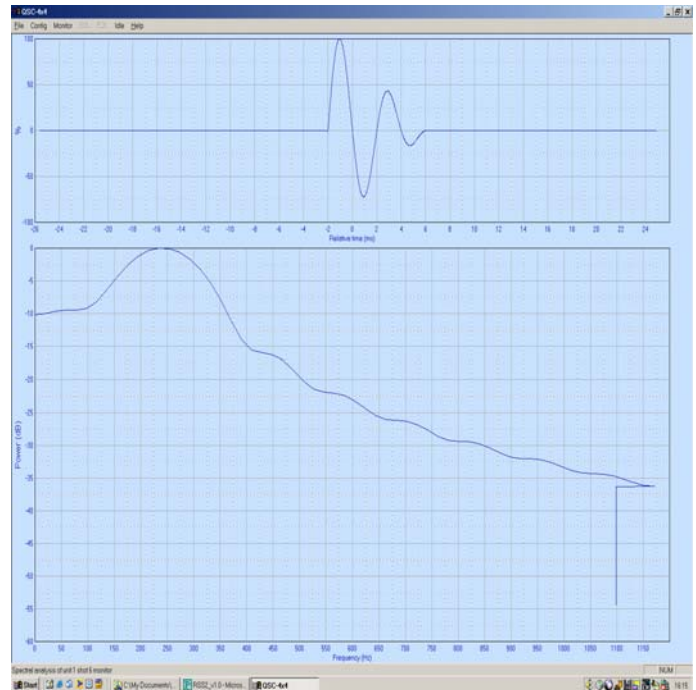
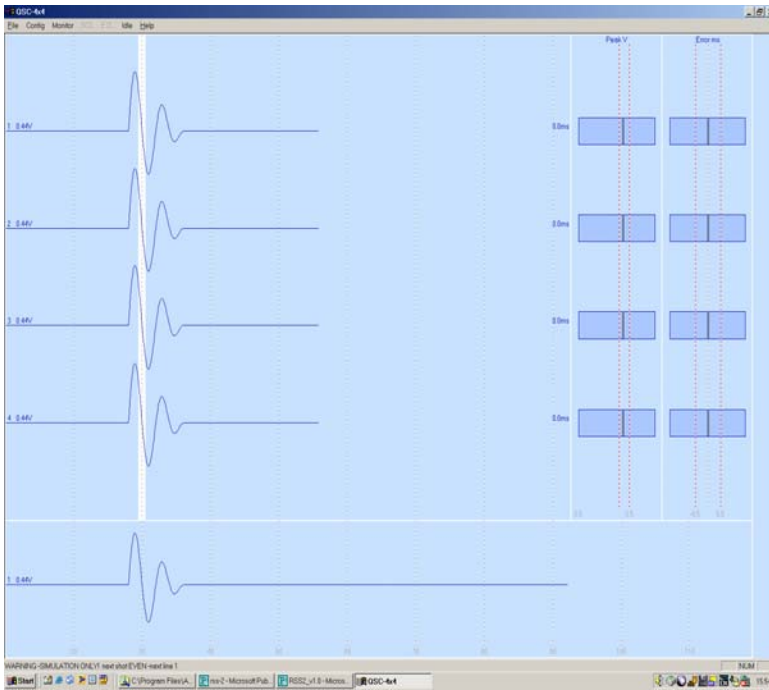
The RSS-2 can be used to control up to four guns as standard and expansion modules can be added to increase this to sixteen. An RSS-2 can be configured as a master or slave to eliminate common backup problems and equipment mix ups. Each master unit can control the firing of up to four remotely located RSS-2 slaves.

Firing delays are adjusted automatically using timing coils but may be set manually if required. The unit will interface to all common air gun types and has a built in constant current source for use with Bolt transducers. Timing can be made from zero crossing or peaks and individual polarity can be switched to overcome wiring errors. Slave units may be divided into four alternately fired groups for flip-flop operation.

High resolution source monitor signatures are transmitted to the master RSS-2 via a digital VHF radio modem. Each individual gun signature is displayed at the slave location and the timing information for each gun is transmitted across to the master unit for error reporting. Airgun pressure is displayed at each RSS-2 and transmitted to the master RSS-2.

In addition to the usual oscilloscope style display of transducer signatures, the display provides bar indicators showing current and spread values of timing error and transducer amplitude. The bar indicators are easy to interpret and show gun performance at a glance. An audible and visual warning is given if the programmable operating limits are breached. A gun performance report is produced automatically at the end of each survey line.





Number of guns:

Control software:

PC interface:

Transmission:

Firing integrity:

Sensor type:

Pressure display accuracy:

Synchronisation accuracy:

Gun firing pulse:

Gun firing pulse width:

Signature sample rate:

A/D converter:

Dimensions:

4 as standard, expand in blocks of 4 to max of 16

PC running Windows 98, XP, 2000

USB-1 port

Radio modem

Command signals are fully decoded multiple tone sequences providing high noise immunity

Hydrophone, shuttle, timing coil etc.

$\pm 1\%$

0.1ms

100V isolated

Programmable

1ms

24 bit Delta-Sigma

3U rack mount (19")

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