Equipment Specifications

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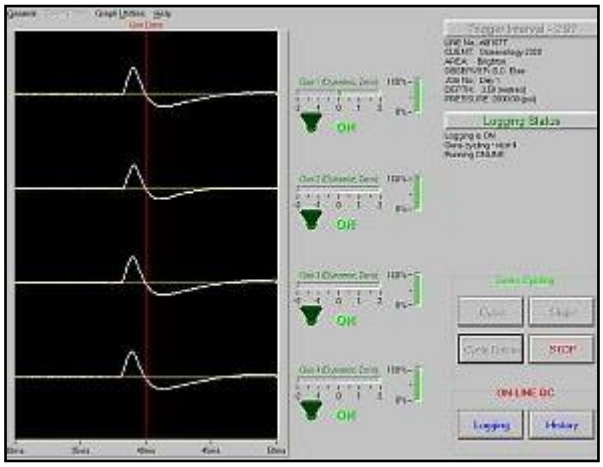
TTS SC2008 Airgun Controller

Overview

The SC2008 is a fully integrated unit for the control and synchronization of air gun arrays.
The SC2008 can control a maximum of 8 sleeve or G guns, or 4 GI guns per unit.
When the unit is active, an external trigger is accepted and all guns are synchronized to a QC target time break value, known as the aim point.
An extra toggle mode is available to fire odd and even guns alternatively
The raw detect signals of all the guns are displayed on the controller PC on a shot to shot basis and QC analysis will instantly inform the user when a shot is out of spec.
A detailed line log is written to disk containing timings and amplitudes for each shot.



Specifications

Number of firing circuits: up to 8 sleeve or 4 GI guns

Solenoid Voltage: 50-70v (Hardware adjustable)

Solenoid Pulse Width: 10-30ms (Software Programmable)

Solenoid Pulse width resolution: 100us

Detect Sensor Gain: 6dB or 12 dB (Software Controlled)

Detect Sensor Max I/P Voltage: (sensor gain of 6dB = 2v peak to peak)

Detect Sensor Max I/P Voltage: (sensor gain of 12dB = 1V peak to peak)

A/D Input Range: 0-5V (2.5v bias)

A/D Resolution: 10 Bit

Samples Interval: 100us

Synchronisation Algorithm: Software Controlled averaging, in 5 shot frames.

Timebreak O/P: TTL +ve pulse, set at Aimpoint, width 2ms

External Trigger I/P: +ve or –ve TTL Pulse (Hardware Adjustable)

Maximum cycle rate: 0.7 Sec (1x gun)

Size: 4u 480mm Deep Subrack

Power Requirements: 220-240v AC