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## Nerve and Muscle Stimulator

### S88 DUAL OUTPUT SQUARE PULSE STIMULATOR

#### Single, Repetitive and Train Outputs. TTL Synchronization, External Analog Control of Rate

The S88 is a dual output, general purpose stimulator for nerve and muscle stimulation procedures. Applications extend from single cell to entire muscle stimulation. The two output channels can be operated independently or synchronized to produce complex paradigms. The outputs are non-isolated constant voltage positive pulses. New features include computer compatibility and flexibility of synchronization circuits. The synchronous inputs and outputs are TTL, 5 volt, PC compatible. A rear DB25S connector permits external analog control of the timing circuits. Optional Stimulus Isolation Units are available for applications requiring isolation and/or constant current.

#### SPECIFICATIONS

Train Rate (S1 and S2)	1/100 sec to 100 TPS (4 decades)
Train Duration	1 msec to 10 sec (4 decades)
Rate (S1 and S2)	1/100 sec to 1000 PPS (5 decades)
Pulse Delay (S1 and S2)	10 $\mu$ sec to 10 sec (6 decades)
Pulse Duration (S1 and S2)	10 $\mu$ sec to 10 sec (6 decades)
Synchronous Outputs (TTL)	S1, S2, S1 Delay, S2 Delay, Train; Front Panel: 10 $\mu$ sec, 50 ohm; Rear Panel: 1 or 10 msec and Train End
Synchronous Inputs (TTL)	Train Duration, S1 Delay, S2 Delay; Trigger from rising or falling edge
Rear Connector (DB25S)	All SYNC INPUTS and OUTPUTS; External Analog Rate Control
Volts Out (S1 and S2)	10 mV to 150 volts (4 decades)
Peak Output Current	450 mA
Output Impedance	250 ohm nominal on all voltage ranges; 25 ohm and 100 kohm on highest range
AC Power	115/230 volts, 50/60 Hz, 125 watts peak, 20 watts standby
Physical Size	17.25" W x 8.75" H x 12.5" D (43.8 cm x 22.2 cm x 31.8 cm)
Rackmount	Optional S88RK: 19" (48.3 cm) Rackmount brackets
Weight	17 lbs. 10 ozs. (7.9 kg)
Regulatory	Safety: UL 3101-1, CSA C22.2 No. 1010-1, EN 61010-1 Other European Standards: EN 55011, EN 50082-1 European Directives: 73/23/EEC, 89/336/EEC