

DS7A Constant Current High Voltage Stimulator



- Versatile full range constant current electrical stimulator
- Stimulate deep structures transcutaneously
- Maximum voltage output 400 V
- Maximum current output selectable: 100 mA or 1 A

The DS7A High Voltage Stimulator provides constant current high voltage pulses of brief duration for percutaneous stimulation during investigation of the electrical activity of nerve and muscle tissue. The output current is continuously variable over the range 0 to 100 mA, from a source voltage continuously variable from less

than 100 Volts to 400 volts. Short pulse durations have been made available to minimize any discomfort to the subject. The pulse width range can be varied from 50 μ sec to 2 millise in six steps. A specially designed isolated output stage maintains a square (current) pulse shape while minimizing stimulus artifacts.

The DS7AH option, allowing currents up to 1A with a maximum pulse duration limit of 200 μ s, is also available. This model is offered to overcome the difficulties of stimulating deep peripheral nerves, or large muscles such as the quadriceps with large area electrodes.

The instrument is mounted in a nonconductive free standing case and is mains powered.

The stimulator requires a TTL trigger pulse input and triggers on the positive edge (negative edge can be internally selected). An optional foot switch may be connected to a socket on the rear panel or the front panel push button pressed. A TTL compatible Trigger output is provided at a BNC socket at the rear panel.

Catalog No.	Model	Description
CGS 8132.71	DS7A	Isolated HV Constant Current Stimulator
CGS 8133.71	DS7AH	Isolated HV Constant DS7A Modified for 1 A Maximum
CGS 8134.71	D200-105	Foot Switch