

D190 Magnetic Stimulator



- Stimulates deep motor/sensory nerve fiber transcutaneously without skin discomfort
- Stimulates via induced electrical field
- No messy electrical contact needed
- Up to 1.5 Tesla magnetic field
- For motor or sensory evoked response and other studies

D190 Magnetic Stimulator

The D190 Magnetic Stimulator provides a high intensity magnetic field pulse suitable for neurophysiological investigations. The rapidly changing magnetic field produced by the output coil is of sufficient strength to non-invasively stimulate deep nerves and is characterized by ease of application and minimum subject discomfort.

The magnetic field pulse is generated by discharging a high energy capacitor system via a solid state switch into the output coil. The coil is energized via a foot switch or front panel push button switch and a synchronizing trigger output is provided for initiating recording equipment. Alternatively the output can be triggered electrically by the positive edge of a TTL level input signal without delay.

Catalog No.	Model	Description
CGS 8146.71	D190	Magnetic Stimulator, 200 to 250 VAC, 50/60 Hz
CGS 8147.71	D190V	Magnetic Stimulator, 100 to 130 VAC, 60 Hz
CGS 8148.71	D190A	Standard Coil
CGS 8149.71	D190B	Flat Figure-of-8 Coil
CGS 8150.71	D190C	Angled Figure-of-8 Coil
CGS 8151.71	D190E	Small Round Coil
CGS 8152.71	D200-105	Foot switch (for DS7 and D190)

Specifications

Power Input	Single phase 200 to 250 Volts 50 Hz or 100 to 126 Volts 60 Hz; 1 kVA intermittent load
Maximum Coil Energy	1200 joules
Maximum Induced Field	1.5 Tesla at the center of the coil face
Minimum Rest Between Pulses	5 sec at maximum output; 2 sec at 50% output
Maximum Repetitions From cold at 5 sec. Rate	60 at maximum output, 120 with coil change
Trigger Facility	Foot switch, front panel push button or electrical pulse- in the range +4 V to +15 V. Input impedance 10 K Ω , minimum pulse width 10 μ sec width
Sync. Facility	Positive trigger output at TTL level +5V 4 K 7 ohms source, 10mA sink, 100 μ sec width
Protection Facilities	Automatic inhibit for coil circuit disconnection, equipment overheating, and supply interruption. Internal capacitor discharge system for supply or coil interruption.
Monitoring Facilities	Stored energy indication, equipment temperature indication
Dimensions, W x D x H	20 x 36 x 48 cm (7.9 x 14.2 x 18.9 in)
Weight	20 kg (44.1 lb)