



Lesion Making Device

Cat. No. 53500

General

This compact, **solid state DC Lesion Maker** has been designed for the production of localized lesions in small animal preparations where where DC is preferred to RF, to produce the lesion.

It features a regulated power supply combined with a constant DC current generator which operates on either continuous or timed mode.

The current generator is protected against short circuit, which prevents the electronics to get damaged due to the electrodes coming accidentally in contact with each other. Particular emphasis has been placed in the design of a good circuit output/ground insulation.

This feature, besides enhancing safe operation, minimizes spurious current field lines across the tissue, out-side the pattern the operator has pre-set.



New Model!

A precision instrument, which provides constant DC current in mA

Main Features

- Violation warning circuit
- Current Range : from 10 μ A to 99 mA
- Digital setting of constant current and time duration
- Pulse Duration : timed between 1 and 99 sec-onds or manually controlled

Controls



The instrument controls are all placed on the top panel; the parameter are set by two thumb-wheel switches:-

- **current output adjustment**, in the range 10 μ A to 99mA
- **pulse duration** from 01 to 99 seconds.

The mode of operation can be selected via a 3-position switch:-

- **Continuous:** the current flows through the preparation in a continuous mode
- **Stand-By:** the instrument is ready to operate but the output stage is not energized
- **Pre-set Duration:** the current flow is timed according to the setting

There are three binding posts at the upper right of the Lesion Maker. Either the red (+) and the black (-) can be connected to the lesion making electrode. The other binding post is usually connected to a pad electrode with electrolyte on the preparation. Either red (+) or black (-) may be grounded via the green binding post.

Led Indicators

Three LED indicators are embodied on the top panel:-

- **POWER** (green) which lights when the unit is ON
- **MON.** (red) which monitors the presence of the lesion current
- **VIOL.** (yellow) which indicates when the current does not correspond to the setting.

Electrodes

Usual needle electrodes, prepared by the researcher according to his/her experimental needs can be used in conjunction with the 3500 Lesion Making Device.

We have the capability and will to manufacture electrodes based on the customer's request.

Ordering Information

53500 Lesion Making Device, standard package, including:-

- 53500-310** Set of 3 output plugs
- 53500-302** Instruction Manual
- E-WP 008** Mains Cord

Set of fuses rated for either 230 V or 115V operation

TECHNICAL SPECS.

| | |
|-------------------------|--|
| Current Range | from 10 μ A to 99 mA |
| Pulse Duration | timed between 1 and 99 sec-onds or manually controlled |
| Compliance Voltage | 200 V DC |
| Max. Electrode R | 20 M Ω (10 μ A) down to 2 K Ω (100 mA) |

Physical

| | |
|-------------------|------------------------|
| Mains Supply | 115 or 230V / 50-60 Hz |
| Power Consumption | 20 W max. |
| Dimensions | 25 x 15 x 11 cm |
| Weight | 1.5 Kg |
| Shipping Weight | 2.8 Kg approx. |

Bibliography

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