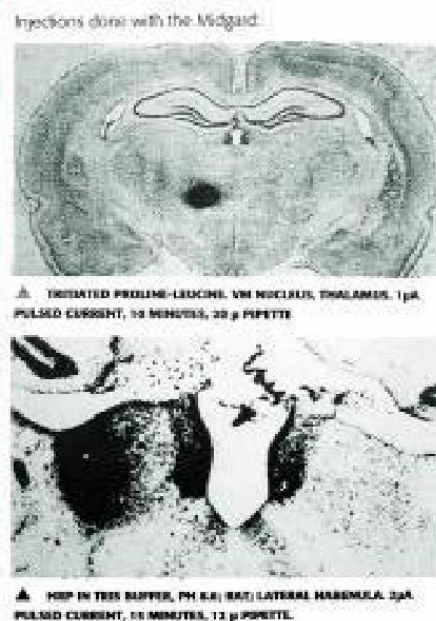


MIDGARD PRECISION CURRENT SOURCE

For Iontophoresis #51595



The third generation of the popular precision current source, designed at M.I.T. for the iontophoresis of neural transport tracers such as horseradish peroxidase (HRP) or tritiated amino acids into neural tissue, is now manufactured by Stoelting. It may also be used to make small lesions ; and in applications requiring precise current control through high impedance. The instrument is easy to use and reliable.

2000V Compliance voltage

The new Midgard features a higher compliance voltage (2000V) for injections from very small or partially clogged pipette tips. The output current level can be regulated to +/- 0.5% from 0.0 to

Pulsed or Continuous Output

Pulsed output helps avoid clogging or polarization of the tip of the pipette. The user may select pulsed or continuous current with a switch. The pulsed on/off times are factory set to 7 sec. on/7 sec. off, but can be separately controlled on an internal pot.

External Control

Many users have requested external timing control for lab automation applications. The new Midgard can be gated through a BNC jack on the rear panel by any laboratory logic pulse generator. The output current is continuous whenever the gating jack is logic high, off when it is logic low.

A special switch allows reversing polarity. This is useful when using a retaining current to hold the pipette contents in during approach. Two high voltage cables, a 200Megohm test resistor and user's manual are included with each Precision Current Source.

SPECIFICATIONS

OUTPUT	
Output Current	0 – 20 μ A, set by ten-turn dial
Compliance Voltage	2000V
Load Current Accuracy	0.5%, 1Megohm – 200Megohm
Load Current Repeatability	0.25%
Polarity	+/-, switch selected
Load Configuration	Load must be floating
Display Resolution	0.01 μ A
Output Connectors	Two binding posts

PULSED MODE OPERATION	
Pulse Duration	7seconds, preset
Duty Cycle	50% (7on / 7off)
Timing Error	1% typical
Timing Error Drift	0.50% 1C
Load Current Fall Time	0.1 sec.
Load Current Rise Time	Dependent on load resistance. For 7.0 μ A through 200 Megohms, rise time to 99% of set value is 1 sec; overshoot less than 5%

外観及び仕様は改良のため予告なしに変更する場合がありますのでご了承願います。

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