

Implantable Pacemaker

Most suitable for the simulation of cardiac failure condition

Implantable Cardiac Pacemaker for Animals

SIP-501/501S



SIP-501

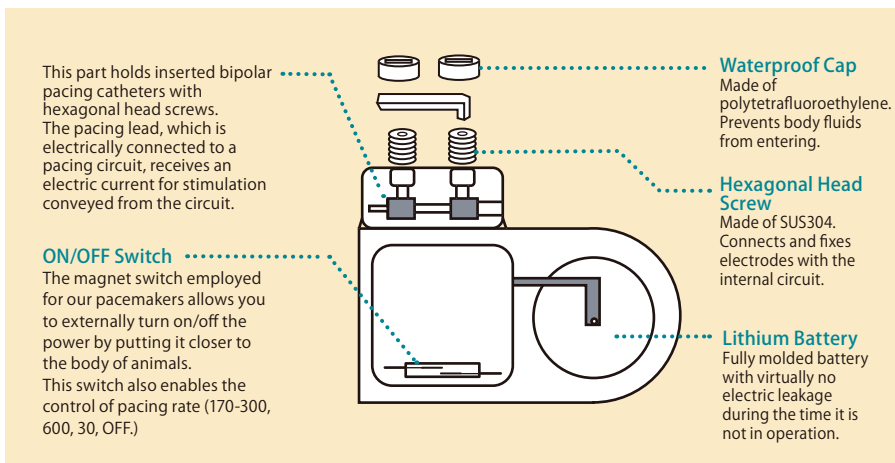
SIP-501 is the standard model of our pacemakers, with perfectly reliable waterproof covering made of epoxy resin to shut out any kind of body fluids. You can control its pulse rate externally from the outside of an animal's body with a magnet to switch the rate, from the slowest to the fastest in 9 gradual steps including OFF.

Our pacemakers, SIP-501/501S with their high-rate features, are capable of creating cardiac failure condition with ease and can be utilized in researches to assess the effectiveness of drug administration.



SIP-501S

Our higher-rate model, SIP-501S, is capable of performing twice as fast rate as that of SIP-501, with its stimulative pulse up to 9V. It can be used for stimulation from outside of the pericardium to create atrial cardiac failure condition for your research.



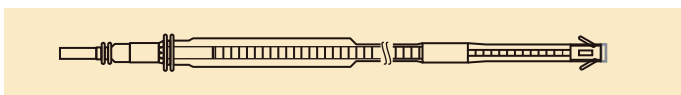
Specifications of SIP501/501S

- Rate : 170, 190, 210, 230, 250, 260, 280, 300 (±5%)、30 (±15%) ppm, OFF
- Pulse Voltage : 5V or more
- Pulse Range : 0.5msec
- Polarity : Bipolar
- Lifetime (in theory) : 1.5 years or more (with 260 ppm, load 700Ω)
- Power Source : Lithium Battery (capacity: 560mAh x 2, voltage: 3V x 2)
- Dimension : 57 (W) x 40 (D) x 18 (H) mm
- Weight : 50g
- Material : Epoxy resin
- Size of Connectors : SIP-501=IS-1 (3.2mm)
SIP-501S=IS-1 (3.2mm)

Accessories

Two waterproof caps and two hexagonal head screws

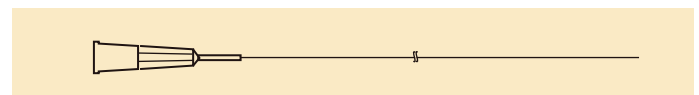
Pacing Bipolar Electrode BT-45



This lead with a bipolar electrode is designed to be indwelled in the heart. Both its electrode and lead are made of SUS304, which is highly resistant to rust, and thus it enables a stable, long-term pacing. With its spiral coil structure, the lead can stand long-term strains generated by a heartbeat. Its tip with a tined structure allows a consistent pacing as the tip fully sinks into the cardiac apex, preventing itself from being displaced even when the subject animal moves very actively.

*SIP501, BT-45, and PS-45 will be delivered in the gas-sterilized condition.

Attachment: Pacing Stylet PS-45



This pacing stylet, which can be set in the lumen of our bipolar leads, makes it possible to bend the lead in J-shaped curve, and thus provides a much easier insertion of the lead from a blood vessel to the atrium. (This stylet is attached to our pacing electrodes.)



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