

Micro-Pace™

Model 4580 Dual-Chamber Temporary Cardiac Pacemaker



The Model 4580 Micro-Pace is a programmable, dual chamber temporary cardiac pacemaker capable of multi-mode, multi-parameter operation. In its most sophisticated mode, DDD, the Micro-Pace will sense and pace in both the atrium and ventricle; restoring A-V synchrony and improving cardiac output.

An increased maximum atrial sensitivity enhances the user's ability to achieve consistent sensing/tracking in the presence of borderline atrial signals. The additional ability of the Model 4580 to pace and track at high rates in the DDD mode allows cardiologists and surgeons to address the needs of post-operative, open-heart patients, regardless of age.

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Features

Software programmable, multi-parameter, multi-mode operation

Low battery indicator - LCD and Tone

User friendly operation

Constant voltage output up to 15 volts

Crosstalk protection

Continuous error checking

Rapid atrial simulation to 800 ppm

Memory-recall of desired parameter settings for each mode

Maintains pacing during battery charge

Integrated IV pole hanger

LCD display constantly displays status of programming and pace/sense/warning indicators

Status warning indicators include - 'S' safety pace, 'X' crosstalk, 'L' low battery, 'N' interference, 'B' 2:1 block, 'W' Wenckebach

Suspend output / resume pacing function

Base rate DDD pacing to 200 ppm with tracking 1:1 in DDD (or VDD) to 230 ppm

Model 4580 utilizes Redel® connectors for ease of use

The Model 4580 Micro-Pace is supplied in a carry case with two extension cables, two 9V alkaline batteries and an arm strap for convenient attachment to the patient.

Specifications

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| Modes | DDD, DDI, DVI, DOO, VDD, VVI, VVT, VOO, AAI, AAT, AOO |
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| Basic Rates | 30 - 200 ppm |
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| Rapid Atrial Simulation | 60 - 800 ppm |
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| Pulse Amplitude (A & V) | 0.1 - 15 volts |
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| Pulse Width (A & V) | 0.05 - 2.0 milliseconds |
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| Sensitivity | (Atrial) | 0.2 - 16 millivolts |
| | (Ventricular) | 0.5 - 20 millivolts |

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|---|------------------------|
| Atrial Refractory Period DDD, DDI, VDD (PVARP), AAI AAT | 196 - 500 milliseconds |
| | 250 - 500 milliseconds |

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|---|------------------------|
| Ventricular Refractory Period DDD, DDI, DVI, VDD, VVI VVT | 196 - 500 milliseconds |
| | 250 - 500 milliseconds |

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| AV Delay | 50 - 400 milliseconds |
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| Maximum Tracking Rate (MTR) | 90 - 230 ppm |
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| Ventricular Blanking Period | 10 - 50 milliseconds |
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| PV Delay | AV Delay minus 25 milliseconds |
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| PMT Algorithm | 10 Beats @ MTR |
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| PVC Response | DVI on PVC |
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| Power On Mode | DDD |
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| Weight | 465 grams |
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| Dimension | 15.5cm x 8.9cm x 4.7cm |
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