

Micro-Pace™

Model 4570 Dual-Chamber Temporary Cardiac Pacemaker



The Model 4570 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 4570 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

Programmable to increased levels of atrial sensitivity

User friendly operation

Constant voltage output

Crosstalk protection

Continuous error checking

Rapid atrial simulation to 800 ppm from any mode

Memory-recall of desired parameter settings for each mode

Maintains pacing during battery charge

Software can be upgraded to avoid obsolescence

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 180 ppm with tracking 1:1 in DDD (or VDD) to 230 ppm

Model 4570 utilizes steel collet jaws with terminal caps for positive closure

The Model 4570 Micro-Pace is supplied in a durable plastic carrying case with two extension cables, two 9V alkaline batteries and an arm and a waist strap for convenient attachment to the patient.

Specifications

Modes	DDD, DDI, DVI, DOO, VDD, VVI, VVT, VOO, AAI, AAT, AOO
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Basic Rates	30 - 180 ppm
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Rapid Atrial Simulation	100 - 800 ppm
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Pulse Amplitude (A & V)	0.1 - 10 volts
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Pulse Width (A & V)	0.05 - 2.0 milliseconds
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Sensitivity	(Atrial)	0.3 - 12 millivolts
	(Ventricular)	1.0 - 20 millivolts

Atrial Refractory Period DDD, DDI, VDD (PVARP), AAI AAT	196 - 500 milliseconds
	300 - 500 milliseconds

Ventricular Refractory Period DDD, DDI, DVI, VDD, VVI VVT	196 - 500 milliseconds
	300 - 500 milliseconds

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	15 ounces (426 grams)
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Dimensions	5.75" x 3.5" x 1.5" (14.6cm x 8.9cm x 3.8cm)
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