



E50D

Model E50A1

Specifications

Dual chamber pacemaker system

E50D

Specifications

Model E50A1

Dual chamber pacemaker system

Mechanical

Model	E50A1
Size (HxWxD mm)	44.7x47.9x7.5
M (g)	27.1
V (cc)	12.1
Connector	IS-1 BI or UNI
Radiopaque ID	VG

Battery

Type	Lithium-iodine
Voltage	2.8 V
Average projected capacity	1.3 Ah

Longevity

with Reduced VP™+ off	11.3 years*
with Reduced VP™+ on	12.0 years**

Bradycardia Pacing

Programmable parameters

Pacing Modes	DDD, DDI, DVI, DOO, VDD, VVIR, VDIR, VVI, VDI, VVT, VOOR, VOO, AAIR, ADIR, AAI, ADI, AAT, AOO, AOO, ODO, OVO, OAO
Mode Switch	On, Off
Lower Rate	30, 35, 40... 60 ...175 ppm (exc. 65, 85)
Upper Tracking Rate ^a	80, 90, 95... 130 ...180 ppm
Upper Sensor Rate	80, 90, 95... 130 ...180 ppm
A and RV Pulse Amplitude ^b	0.5, 0.75, 1.0... 3.5 ...4, 4.5, 5, 5.5, 6, 7.5 V
A and RV Pulse Width	0.12, 0.15, 0.21, 0.27, 0.34, 0.4 , 0.46, 0.52, 0.64, 0.76, 1, 1.25, 1.5 ms
Atrial Sensitivity	0.18, 0.25, 0.35, 0.5, 0.7, 1, 1.4, 2, 2.8, 4 mV
Ventricular Sensitivity	1, 1.4, 2, 2.8 , 4, 5.6, 8, 11.2 mV
Pacing Polarity (A and V)	Bipolar, Unipolar, Configure
Sensing Polarity (A and V)	Bipolar, Unipolar, Configure
Paced AV (PAV)	30, 40, 50 ... 150 ...350 ms
Sensed AV (SAV)	30, 40, 50 ... 120 ...350 ms
PVARP	Auto , Varied, 150, 160, 170 ...500 ms
Minimum PVARP	150, 160, 170... 250 ...500 ms
PVAB	130, 140, 150... 180 ...350 ms
Atrial Refractory Period	180, 190, 200... 250 ...500 ms
Atrial Blanking Period	130, 140, 150... 180 ...350 ms
Ventricular Refractory Period	150, 160, 170... 230 ...500 ms
Ventricular Blanking (after atrial pace) (PAVB)	20, 28 , 36, 44 ms

Therapies to promote intrinsic activation

Reduced VP™+	On, Off
Max Increase to AV	10, 20, 30... 170 ...250 ms
Sleep	On, Off
Sleep Rate	30, 35, 40... 50 ...90 ppm (exc. 65, 85)
Bed Time	00:00, 00:15, 00:30... 22:00 ...23:45
Wake Time	00:00, 00:15, 00:30... 8:00 ...23:45
Single Chamber Hysteresis	Off, 40, 50, 60 ppm

Rate Response Pacing

ADL Rate	60, 65, 70... 95 ...175, 180 ppm
Rate Profile Optimization	On, Off
ADL Response	1, 2, 3 , 4, 5
Exertion Response	1, 2, 3 , 4, 5
Activity Threshold	Low, Medium Low , Medium High, High
Acceleration	15 s, 30 s , 60 s
Deceleration	2.5 min, 5 min, 10 min, Exercise
RAAV	On, Off
Start Rate	50, 55, 60... 80 ...175 ppm
Stop Rate	55, 60, 65... 120 ...180 ppm
Maximum Offset	-10, -20, -30... -40 ...-300 ms

Additional Pacing Features

PMT Intervention	On, Off
PVC Response	On, Off
Ventricular Safety Pacing	On, Off

Atrial Tachyarrhythmia Therapies and Interventions

Mode Switch	On, Off
Detected Rate	120, 125... 175 ...200 ppm
Detect Duration	No Delay , 10, 20...60 sec
Blanked Flutter Search	On, Off

Conducted AF Response^c

Regularize V-V during AT/AF	On, Off
Maximum Rate (ppm)	80, 85, 90... 110 ...130

Non-Competitive Atrial Pacing **On, Off**

Automatic Pacing, Sensing, and Lead Monitor

Implant Detection and Initialization

At the completion of the 30-minute Implant Detection period, Rate Profile Optimization is enabled; the appropriate pacing and sensing polarities are automatically selected by the device; Ventricular Output Management is enabled and Amplitude and Pulse Width become adaptive. Reduced VP™+ is enabled 60 minutes after implant detection is complete.

Implant Detection	On/Restart, Off/Complete
Lead Monitor (A and V)	Configure, Monitor Only, Adaptive (Auto Polarity Switch), Off
Notify if <	200 Ω
Notify if >	1000, 2000, 3000, 4000 Ω
Monitor Sensitivity	2, 3, 4 ... 8 ... 16

Ventricular Output Management

Ventricular Output Management	Off, Monitor Only, Adaptive
Amplitude Margin	1.5x, 2x , 2.5x, 3x, 4x (times)
Minimum Adapted Amplitude	0.5, 0.75... 2 ...3.5 V
Capture Test Frequency	15, 30 min; 1, 2, 4, 8, 12 hours; Day at rest ; Day at...; 7 days at
Capture Test Time	00:00, 1:00...23:00
Acute Phase Days Remaining	Off, 7, 14, 21...84, 112 , 140, 168... 252 days
V. Sensing During Search	Unipolar, Bipolar, Adaptive

Vitatron. The Pace Makers

Vitatron – based in Europe – is the only medical device company that specializes exclusively in pacemakers. Since 1962, Vitatron pacemakers have helped restore more than 600,000 people in more than 60 countries to a full life. We strive to achieve perfection in everything we do. This results in unique patient-focused therapies, as well as highly cost-effective pacemakers that are easy to use.



E50 D

Dual Chamber

Head Office:

Vitatron Holding BV
Endepolsdomein 5,
Maastricht
NL 6229GW
The Netherlands
www.vitatron.com

UC201004146 EE
© Vitatron Holding B.V. 2010
All Rights Reserved.

Sales Offices:

Vitatron India	+91-22 26836733
Vitatron Latin America	+1-786 709-4228
Vitatron Europe	+31-(0)43 356 6551
Vitatron China	+86-(0)21 3861 2000

Vitatron is further represented by dealers throughout the world. All specifications subject to change without notice.