





Single chamber pacemaker system

vitatron • The Pace Makers

E10S

Specifications

Model E10A1

Single chamber pacemaker system

Mechanical

Model Size (HxWxD mm) M (g) V (cc) Connector Radiopaque ID E10A1 40.2x42.9x7.5 21.5 9.7 IS-1 BI or UNI VG

Battery

TypeLithium-iodineVoltage2.8 VAverage projected capacity.92 Ah

Longevity

10.4 years*

Bradycardia Pacing

Programmable parameters	
Pacing Modes	VVI, VVT, VOO, AAI, AAT, AOO, OVO, OAO
Lower Rate	30, 35, 40 60 175 ppm
	(exc. 65, 85)
A and RV Pulse Amplitude ^a	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	0.25, 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
Atrial Refractory Period	180, 190, 200 250 500 ms
Atrial Blanking Period	130, 140, 150 180 350 ms
Ventricular Refractory Period	150, 160, 170 330 500 ms

Therapies to promote intrinsic activation

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

Automatic Pacing, Sensing, and Lead Monitor Implant Detection and Initialization

At the completion of the 30-minute Implant Detection period, the appropriate pacing and sensing polarities are automatically selected by the device; Ventricular Output Management is enabled and Amplitude and Pulse Width become adaptive.

Implant Detection Lead Monitor (A and V)

Notify If < Notify If > Monitor Sensitivity On/Restart, Off/Complete Configure, Monitor Only, Adaptive (Auto Polarity Switch), Off **200** Ω 1000, 2000, 3000, **4000** Ω 2, 3, 4...**8**...16

Ventricular Output Management

Ventricular Output Management Amplitude Margin Minimum Adapted Amplitude Capture Test Frequency

Capture Test Time Acute Phase Days Remaining

V. Sensing During Search

Off, Monitor Only, **Adaptive** 1.5x, **2x**, 2.5x, 3x, 4x (times)

0.5, 0.75...**2**...3.5 V 15, 30 min; 1, 2, 4, 8, 12 hours; **Day at rest**; Day at...; 7 days and 00:00, 1:00...23:00

Off, 7, 14, 21...84, **112**, 140, 168... 252 days Unipolar, Bipolar, **Adaptive**

Diagnostics

Cardiac Dashboard II Highlights significant events, pacing summary, threshold and impedance trends Ventricular pacing threshold trends Battery longevity

Pacing summary and access to rate histogram Atrial and ventricular lead impedance trends Observations

Histogram reports

Heart rate histograms

Atrial and ventricular episodes

High rate episodes Multiple EGM episodes AT/AF duration

Clinician selected diagnostics

Custom rate trend Ventricular output management detail High rate detail

Patient Data Management

Patient data stored in device Patient identification Leads implanted Device implanted Clinician's stored notes

Data management

Automatic printing of initial interrogation report Full page printing Save-to-Disk capacity for electronic file management

Follow-up and Troubleshooting

On, Off
On, Off
Standard, Therapy Trace
test

Magnet mode operation

	BOS	ERI/RRT
Single chamber atrial mode	AOO 85 ppm	65
Single chamber ventricular mode	VOO 85 ppm	65

ERI-RRT

Initiation date

Recommended Replacement Time (RRT/ERI)

 Replacement message on programmer (Cardiac Dashboard II)

 Battery/lead information
 Replacement message and displayed battery voltage on programmer

 RRT/ERI initiation date
 Displayed on programmer

References

 a Tolerance for amplitudes from 0.5 V through 6.0 V is \pm 10% and for 7.5 V is -20/+0%. Tolerances are based on 37°C and a 500 Ω load. Amplitude is determined 200 μs after the leading edge of the pace. *60ppm, 100% pacing, 2.0 V, 0.4 ms pulse width, 1000 Ω pacing impedance.

Nominal values indicated in **bold**

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.



E10 S Single Chamber

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

UC201004147 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.

vitatron • The Pace Makers