



G20SR

Model G20A1

Specifications

Single chamber pacemaker system

Mechanical

Model	G20A1
Size (HxWxD mm)	40.2x42.9x7.5
M (g)	21.5
V (cc)	9.7
Connector	IS-1 BI or UNI
Radiopaque ID	VG

Battery

Type	Lithium-iodine
Voltage	2.8 V
Average projected capacity	.92 Ah

Longevity	10.4 years*
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Bradycardia Pacing

Programmable parameters

Pacing Modes	VVIR , VVI, VVT, VOOR, VOO, AAIR, AAI, AAT, AORR, AOO, OVO, OAO
Lower Rate	30, 35, 40... 60 ...170, 175 ppm (exc. 65, 85)
Upper Sensor Rate	80, 90, 95... 130 ...180 ppm
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

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

Atrial Tachyarrhythmia Therapies and Interventions

Conducted AF Response^b

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

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. Sensing Assurance™ is enabled and Sensitivity becomes adaptive.

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 00:00, 1:00...23:00
Capture Test Time	
Acute Phase Days Remaining	Off, 7, 14, 21... 84 , 112 , 140, 168... 252 days
V. Sensing During Search	Unipolar, Bipolar, Adaptive

Sensing Assurance

Sensing Assurance (A and V) **On**, Off

Diagnostics

Cardiac Dashboard II

Highlights significant events, AT/AF and 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
Number of hours/day in atrial arrhythmia, percentage of time
Access to AT/AF diagnostics
Observations
P-wave/R-wave amplitudes and access to A and V sensitivity trends

AT/AF compass trends

Trend data compiles up to 6 months of daily clinical information in an easy-to-interpret graphic format

Histogram reports

Heart rate histograms
Sensor indicated rate profile

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.



G20 SR Single Chamber

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