

G20SRSpecifications

Model G20A2 Single chamber MRI[™] SureScan[®] pacemaker system

G20SR Specifications

Model G20A2

Single chamber pacemaker system

Me			

G20A2 Model Size (HxWxD mm) 40.2x42.9x7.5 M(g) 21.5 V (cc) 9.7

Connector IS-1 BI or UNI

Radiopaque ID ۷5

Battery

Type Lithium-iodine 2.8 V Voltage Average projected capacity .91 Ah

10.4 years* Longevity 9.6 years[†]

Bradycardia Pacing

Programmable parameters

VVIR. VVI, VVT, VOOR, VOO, AAIR, AAI, Pacing Modes

AAT, AOOR, AOO, OVO, OAO Lower Rate 30, 35, 40...60...170 min⁻¹

(exc. 65, 85)

Upper Sensor Rate 80, 90, 95...130...180 min-1

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 Bipolar, Unipolar, Configure Pacing Polarity (A and V) 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

30, 35, 40...**50**...90 min⁻¹ (exc. 65, 85) Sleep Rate

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 min⁻¹

Rate Response Pacing

ADL Rate 60, 65, 70...**95**...175, 180 min⁻¹

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 **MRI Pacing Parameters**

SureScan® Pacing Mode SureScan Lower Rate

Interval

SureScan Atrial **Amplitude** SureScan Atrial

Pulse Width

SureScan Atrial 0.18, 0.25, 0.35, 0.5, 0.7, 1.0, 1.4,

Sensitivity

SureScan Ventricular

Amplitude

SureScan Ventricular

Sensitivity

11.2 mV SureScan Ventricular Pulse

Width

SureScan Timeout

24 hr Duration

SureScanMRI Compatibility 1.5 and 3 Tesla, full body scan

Atrial Tachyarrhythmia Therapies and Interventions

AOO. VOO. OAO.OVO

5.0, 5.5, 6.0, 7.5 V

1.0, 1.25, 1.5 ms

2.0, 2.8, 4.0 mV

5.0. 5.5. 6.0. 7.5 V

1.0, 1.25, 1.5 ms

60, 70, 75, 80 ... 115, 120^b min⁻¹

1.0, 1.4, 2.0, 2.8, 4.0, 5.6, 8.0,

Conducted AF Responseb

Regularize V-V during AT/AF On, Off

Maximum Rate (min-1) 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

Lead Monitor (A and V)

Configure, Monitor Only, Adaptive (Auto Polarity Switch), Off

On/Restart, Off/Complete

200 O

Notify If <

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

0.5. 0.75...**2**...3.5 V Amplitude

Capture Test Frequency 15, 30 min; 1, 2, 4, 8, 12 hours; Day at rest; Day at ...; 7 days at

Capture Test Time Acute Phase Days

Remaining

Off, 7, 14, 21...84, **112**, 140, 168...

00:00, 1:00...23:00

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

CardioTrend™

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

Atrial and ventricular episodes

High rate episodes Atrial arrhythmia durations Multiple EGM episodes

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

Telemetry features

Transtelephonic monitor On, Off Extended telemetry On, Off

Extended marker Standard, Therapy Trace

Key parameter history Initial interrogation report Strength duration threshold test Ventricular threshold test Marker Channel™ Threshold margin test

Exercise test
EP studies

Magnet test Underlying rhythm test

Sensing test Temporary test

Magnet mode operation

	BOS	ERI
Single chamber atrial mode	A00 85 min ⁻¹	65
Single chamber ventricular mode	V00 85 min ⁻¹	65

Recommended Replacement Time (RRT) and Elective Replacement Indicator (ERI)

Replacement message on programmer (Cardiac Dashboard II)

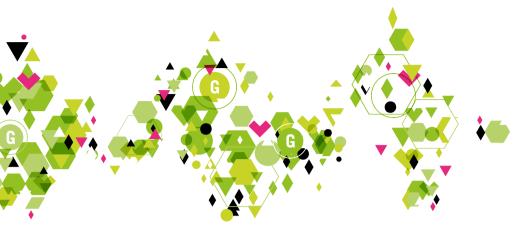
Battery/lead information Replacement message and battery

voltage displayed on programmer

References

- *SSIR or SSI 50%, 2 V, 60 min⁻¹, 0.4 ms, 500 OHM.
- † SSIR or SSI 100%, 2 V, 60 min $^{\text{-}1}$, 0.4 ms, 500 OHM.
- 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 $^\circ$ C and a 500 Ω load. Amplitude is determined 200 μs after the leading edge of the pace.
- $^{\text{b}}$ User selection will not include 65 min $^{\!-1}$ or 85 min $^{\!-1}$.
- ^c Conducted AF Response is functional during VVIR modes.

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 1,000,000 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.

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