#### **Pacemakers**

### Endurity MRI<sup>™</sup>

#### **Dual-Chamber Pacemaker**

#### Product Highlights - Pacemaker

The Endurity MRI<sup>™</sup> pacemaker is designed to allow patients to undergo MRI scans:

- When combined with the Tendril MRI<sup>™</sup> LPA1200M lead, the MRI-ready device:
  - Allows full-body, MRI scans\*
  - Permits a maximum whole body averaged specific absorption rate (SAR) of 4 Watts per kilogram (W/kg)
- When combined with Tendril<sup>™</sup> 2088TC or IsoFlex<sup>™</sup> Optim<sup>™</sup> 1944/1948 Leads, the MRI Ready device:
  - Allows MRI scans\*
  - Permits a maximum whole body averaged specific absorption rate (SAR) of 2 Watts per kilogram (W/kg)
- Physician preferred size and physiologic shape minimize pocket size
- Outstanding longevity provides 9,7 years of service life,<sup>10</sup> which is supported by an 8-year warranty<sup>11</sup>
- AutoCapture<sup>™</sup> pacing system offers the maximum in threshold adaptability and patient safety with ventricular Beat-by-Beat<sup>™</sup> capture confirmation. The AutoCapture pacing system automatically delivers a 5,0 V backup safety pulse when noncapture is detected, and it may be programmed to either a bipolar or unipolar configuration
- A suite of state-of-the-art features complete automaticity (atrial and ventricular), Ventricular Intrinsic Preference (VIP<sup>™</sup>) technology, the AF Suppression<sup>™</sup> algorithm and Sense *Ability<sup>™</sup>* technology is designed to deliver optimal therapy for patients at implant and throughout their lives
- The only pacemaker with programmable AT/AF alerts specifically indicated for detecting atrial tachyarrhythmias, which have been found to be associated with an increased risk of stroke in elderly, hypertensive, pacemaker patients without prior history of AF<sup>12</sup>
- Real-time electrogram (EGM) waveform, as well as the associated event markers that precede and follow a specific triggering event, can be programmed to automatically record up to 14 minutes of stored EGMs when encountering one or more programmable trigger options
- 6-month ERI-EOL interval
- An optional, easy-to-use hand-held device (SJM MRI Activator<sup>™</sup> device) can be used to program the device to pre-approved MRI settings pre- and post-MRI scan, decreasing the number of workflow steps and increasing clinic efficiency
- \* See MRI Conditional Parameters

#### Ordering Information - MRI-Ready Pacing System

Model Number	Description	Dimensions (H x W x T, mm)	Weight (g)	Volume (cc)	Connector
PM2172	Endurity MRI <sup>™</sup> Pacemaker	46 x 50 x 6	19	10,4 (± 0,5)	IS-1

Model Number	Description	Insulation	Fixation	Min. Introducer (F)	Connector	Length (cm)
LPA1200M	Tendril MRI Pacing Leads	Optim™	Ext/Ret helix	8	IS-1 bipolar	46, 52, 58
2088TC	Tendril STS Pacing Leads	Optim™	Ext/Ret helix	6	IS-1 bipolar	46, <mark>52, 58</mark>
1944 (J-shaped)	IsoFlex Optim Pacing Leads	Optim™	Tines	7	IS-1 bipolar	46,52
1948 (Straight)	IsoFlex Optim Pacing Leads	Optim™	Tines	7	IS-1 bipolar	52, 58

Indications: Implantation is indicated in one or more of the following permanent conditions: syncope, presyncope, fatigue, disorientation due to arrhythmia/bradycardia or any combination of those symptoms. *Rate-Modulated Pacing* is indicated for patients with chronotropic incompetence, and for those who would benefit from increased stimulation rates concurrent with physical activity. *Dual-Chamber Pacing* is indicated for those patients exhibiting: sick sinus syndrome, chronic, symptomatic second- and third-degree AV block, recurrent Adams-Stokes syndrome, symptomatic bilateriab undle branch block when tachyarrhythmia and other causes have been ruled out. *Atrial Pacing* is indicated for patients with sinus node dysfunction and normal AV and intraventricular conduction systems. *Ventricular Pacing* is indicated for patients with significand and normal sinus rhythm with only rare episodes of A-V block or sinus arrest, chronic atrial fibrillation, severe physical disability. AF Suppression algorithm is indicated for suppression of paroxysmal or persistent atrial fibrillation episodes in patients with one or more of the above pacing indications.

Contraindications: Dual-chamber pulse generators are contraindicated in patients with an implanted cardioverter-defibrillator. Rate-Adaptive Pacing may be inappropriate for patients who experience angina or other symptoms of myocardial dysfunction at higher sensor-driven rates. An appropriate Maximum Sensor Rate should be selected based on assessment of the highest stimulation rate tolerated by the patient. AF Suppression stimulation is not recommended in patients who cannot tolerate high atrial-rate stimulation. Dual-Chamber Pacing, though not contraindicated for patients with chronic atrial flutter, chronic atrial fibrillation or silent atria, may provide no benefit beyond that of single-chamber pacing in such patients. Single-Chamber Ventricular Demand Pacing is relatively contraindicated in patients who have demonstrated pacemaker syndrome, have retrograde VA conduction or suffer a drop in arterial blood pressure with the onset of ventricular pacing. Single-Chamber Atrial Pacing is relatively contraindicated in patients who have demonstrated compromise of AV conduction.

Potential Adverse Events: The following are potential complications associated with the use of any pacing system: arrhythmia, heart block, thrombosis, threshold elevation, valve damage, pneumothorax, myopotential sensing, vessel damage, air embolism, body rejection phenomena, cardiac tamponade or perforation, formation of fibrotic tissue/local tissue reaction, inability to interrogate or program a device because of programmer malfunction, infection, interruption of desired device function due to electrical interference, loss of desired pacing and/or sensing due to lead displacement, body reaction at electrode interface or lead malfunction (fracture or damage to insulation), loss of normal device function due to battery failure or component malfunction, divice migration, pocket erosion or hematoma, pectoral muscle stimulation, phrenic nerve or diaphragmatic stimulation. The following, in addition to the above, are potential complications associated with the use of rate-modulated pacing systems: inappropriate, rapid pacing rates due to sensor failure or to the detection of signals other than patient activity, loss of activity-response due to sensor failure, palpitations with high-rate pacing.

Refer to the User's Manual for detailed indications, contraindications, warnings, precautions and potential adverse events.



### Endurity MRI<sup>™</sup>

**Dual-Chamber Pacemaker** 

#### Product Specifications - Pacemaker

PHYSICAL SPECIFICATIONS Model PM2172 PM2172 Inductive 46 x 50 x 6 19 10,4<sup>1</sup> IS-1 Telemetry Dimensions (mm) Weight (g) Volume (cc) Connector

#### **Remote Monitoring**

I

Compatible with Merlin@home<sup>™</sup> Transmitter

PARAMETER	SETTINGS
Rate/Timing	
Atrial Pace Refractory (ms) Atrial Sense Refractory (ms) Paced AV Delay (ms) Base Rate (min <sup>-1</sup> ) Far-Field Protection Interval (ms) Hysteresis Rate (min <sup>-1</sup> ) Search Interval (min <sup>-1</sup> ) Cycle Count Intervention Rate (min <sup>-1</sup> )	190-400 in steps of 30; 440; 470 <sup>2</sup> 93; 125; 157; 190-400 in steps of 30; 440; 470 <sup>2</sup> 25; 30-200 in steps of 10; 225-300 in steps of 25; 350 30-130 in steps of 5; 140-170 in steps of 10 16 <sup>3</sup> 0ff; 30 <sup>4</sup> -150 in steps of 5 0ff; 1; 5; 10; 15; 30 1-16 in steps of 1 0ff; Same as Base Rate; 80-120 in steps of 10; Intrinsic +0; Intrinsic +10; Intrinsic +20; Intrinsic +30
Intervention Duration (min) Recovery Time Maximum Tracking Rate (min <sup>-1</sup> ) Mode	1-10 in 1 minute intervals Fast; Medium; Slow; Very Slow 90-130 in steps of 5; 140-210 in steps of 10 A00(R); AAI(R); AAT(R); V00(R); VVI(R); VVT(R); VDD(R); D00(R); DVI(R); DDI(R); DDD(R); Pacing Off
Post Ventricular Atrial Blanking (ms) PVARP (ms) Sensed AV Delay (ms) Rest Rate (min <sup>-1</sup> ) Rate Responsive AV Delay Rate Responsive AV Delay Rate Responsive AV ARP/VREF Shortest AV Delay (ms) Shortest AV Delay (ms) Ventricular Planking (ms) Ventricular Planking (ms) (Fixed) (ms)	60-200 in steps of 10: 225; 250 125-500 in steps of 25 25; 30-200 in steps of 10; 225-325 in steps of 25 0ff; 30-150 in steps of 5 0ff; Low; Medium; High 0ff; Low; Medium; High 25-50 in steps of 5: 60-120 in steps of 10 125-475 in steps of 25 Auto, 12-52 in steps of 4 125; 160-400 in steps of 30; 440; 470; 500 <sup>2</sup>
Output/Sensing	
ACap <sup>®</sup> Confirm Primary Pulse Configuration Backup Pulse Amplitude (V) Search Interval (hours) A or V Pulse Amplitude (V) A or V Pulse Width (ms) A or V Pulse Configuration A or V Sense Configuration	On; Off; Monitor Bipolar 5,0 8; 24 0,25-4,0 in steps of 0,25; 4,5-7,5 in steps of 0,5 0,05; 0,1-1,5 in steps of 0,1 Unipolar (tip-case); Bipolar (tip-ring) Unipolar Tip (tip-case); Bipolar (tip-ring); Unipolar Ring (ring-case)

Ventricular AutoCapture™ On: Off Pacing System Primary Pulse Configuration Unipolar; Bipolar Unipolar; Bipolar 5,0<sup>3</sup> Primary Pulse Configuration Backup Pulse Configuration Backup Pulse Amplitude (V) Search Interval (hours) AutoCapture Paced/Sensed AV Delay (ms) ticl Conciliation (ms) 8;24 67 24 50/25; 100/70; 120/100 0.1-0,4<sup>6</sup> in steps of 0.1; 0.5; 0,75-2,0 in steps of 0,25; 2,5-4,0 in steps of 0,5; 5,9' 0,5-5,0 in steps of 0,5; 6-10 in steps of 1,0; 12,5' 0ff; 0n (Automatic Sensitivity Control adjustment for atrial and ventricular events) 0,2-2,0 in steps of 0,1 0,2-2 0 in steps of 0,1 (Atrial and Ventricular Post-Sense) 50; 62,5; 75; 100% (Atrial Post-Pace) 0,2-3,0 in steps of 0,1 mV (Ventricular Post-Pace) 0,2-3,0 in steps of 0,1 mV (Atrial Post-Pace) 0,30; 60; 95; 125; 160; 190; 220 (Atrial Post-Pace) 0,30; 60; 95; 125; 160; 190; 220 Atrial Sensitivity (mV) Ventricular Sensitivity (mV) Sense*Ability*™ Technology A Max Sensitivity (mV) V Max Sensitivity (mV) Threshold Start

Decay Delay (ms)

Rec Sen Slop

Thr

AF

Rate-Modulated Parameters

#### Maximum Sensor Rate (min-1) Rea

Management	the first set for the set of the
reshold	Auto (-0,5); Auto (+0,0); Auto (+0,5); Auto (+1,0); Auto (+1,5); Auto (+2,0); 1-7 in steps of 0,5
ipe	Auto (-1); Auto (+0); Auto (+1); Auto (+2); Auto (+3): 1-16 in steps of 1
nsor	On; Off; Passive
covery Time	Fast; Medium; Slow; Very Slow
action lime	very Fast; Fast; Medium; Slow

Off: On

AF Suppression<sup>™</sup> Algorithm Lower Rate Overdrive (min<sup>-1</sup>) Upper Rate Overdrive (min<sup>-1</sup>) No. of Overdrive Pacing Cycles 10 15-40 in steps of 5 Rate Recovery (ms) Maximum AF 8:12

#### Customer Support: 46-8-474-4756

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use. Devices depicted may not be available in all countries. Check with your St. Jude Medical representative for product availability in your country.

80-150 in steps of 5; 160-180 in steps of 10

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Suppression Rate (min-1) Atrial Tachycardia Detection Rate (min<sup>-1</sup>) Auto Mode Switch

#### AMS Base Rate (min-1)

#### Stored Electrograms

Options Priority Options Channel Channel Triggers Advanced Hysteresis AMS Entry/AMS Exit/ AMS Entry and Exit AT/AF Detection AT/AF Detection Magnet Response High Atrial Rate Rate (mir<sup>1</sup>) No. of Consecutive Cycles High Ventricular Rate Rate (mir<sup>1</sup>) No. of Consecutive Cycles PMT Termination Consecutive PVCs Consecutive PVCs No. of Consecutive PVCs Noise Reversion

80-200 in steps of 10; 225-300 in steps of 25

Off; Low; High 1; 2; 3

Off; Low; High Off; Low; High Off; Low; High Off; Low; High

Off, Low; High 125-300 in steps of 25 2; 3; 4; 5; 10; 15; 20 Off, Low; High 125-300 in steps of 25 2; 3; 4; 5; 10; 15; 20 Off, Low; High Off, Low; High

Monitor; Auto Polarity Switch

Monitor, Auto Polarity Switch 100-500 in steps of 25 750-2500 in steps of 250; 3000 Uncoded; Unipolar; Bipolar Off; Battery Test Off; -10 to -120 in steps of 10

100-800 m steps of 10 Off; 100-800 in steps of 10 (Fixed or Adaptive) Off; 30-95 in steps of 5 1; 2; 3; 4; 5 Off; Passive; Atrial Pace<sup>2</sup> 0, 120 is erg of 5

Atrial; Ventricular 100-800 in steps of 10<sup>8</sup>

90-180 in steps of 5 Off; Atrial Pace<sup>2</sup>

Off; Low; High

Off; Low; High

2:3:4:5

110-200 in steps of 10; 225-300 in steps of 25 Off; DDD(R) to DDI(R); DDD(R) to DDT(R); DDD(R) to VVI(R); DDD(R) to VVT(R); VDD(R) to VVI(R); VDD(R) to VVT(R) 40-170 in steps of 5

Othe

A and V Lead Monitoring A and V Low Impedance Limit ( $\Omega$ ) A and V High Impedance Limit ( $\Omega$ ) A and Vingrimpedance Linit (1) Lead Type Magnet Response Negative AV Hysteresis Search (ms) NIPS Options Stimulation Chamber Coupling Interval (ms) SI Count SI Count SI<sup>2</sup>, S2; S3 and S4 Cycle (ms) Ventricular Support Rate (min<sup>-1</sup>) Sinus Node Recovery Delay (sec) PMT Options PMT Detection Rate (min<sup>-1</sup>) PVC Pepenpenc **PVC** Response PVC Kesponse Ventricular Intrinsic Preference, VIP™ (ms) VIP Search Interval VIP Search Cycles Ventricular Safety Standby Diagnostic Trends

#### **MRI Settings**

MRI Mode MRI Base Rate MRI Paced AV Delay MRI Atrial Pulse Configuration MRI Atrial Pulse Amplitude MRI Atrial Pulse Width MRI AUTAI Fuise Width MRI RV Pulse Configuration MRI RV Pulse Amplitude MRI RV Pulse Width

Off, 50-150 in steps of 25; 160-200 in steps of 10 30 sec.; 1; 3; 5; 10; 30 min. 1; 2; 3 Off, On AT/AF Activity: Exercise: Lead Impedance: P and R Wave: A and V Threshold A00; V00; D00; Pacing Off 30-120 bpm in steps of 5 bpm 25 ms; 30-120 ms in steps of 10 ms

Bipolar 5,0 V; 7,5 V 1,0 ms Rinolar 5,0 V; 7,5 V 1,0 ms

#### MRI Conditional Parameters

Lead Tendril MRI LPA1200M Lead Tendril 2088TC Lead IsoFlex 1944 Lead IsoFlex1948 Lead	Lead Lengths 46, 52, 58 cm 46, 52, 58 cm 46, 52 cm 52, 58 cm	Isocenter mu	usion zone st be inferior to L4 st be inferior to L4	or 10 cm superior to C1 4 or superior to C1 4 or superior to C1
Lead Tendril MRI LPA1200M Lead	Lead Lengths 46, 52, 58 cm	Magnet 1.5T	$\begin{array}{l} SAR \\ \leq 4 \; W/kg \end{array}$	I.ST SAR
Tendril 2088TC Lead IsoFlex 1944 Lead IsoFlex 1948 Lead	46, 52, 58 cm 46, 52 cm 52, 58 cm	1.5T 1.5T 1.5T	≤ 2 W/kg ≤ 2 W/kg ≤ 2 W/kg	I.ST SAR

1. ± 0.5 cc

± 0, 5 cc
 2 Programming options dependent on pacing mode.
 3. This parameter is not programmable.
 4. The highest available setting for hysteresis rate will be 5 min<sup>4</sup> below the programmed base rate.
 5. In dual-chamber modes, the maximum ventricular refractory period is 325 ms.
 6. Values 0, 1-0, 4 not available in a unipolar sense configuration.
 7. Sensitivity is with respect to a 20 ms haves ine test signal.

7. Sensitivity is with respect to a 20 ms neversine test signal. B. During atrial NIPS in dual-chamber modes, the shortest Coupling Interval will be limited by the programmed AV/PV delay. 9. SI Burst Cycle is applied at the preprogrammed SI cycle length. 10. AV = 2.5 V e0. Ams. 500 dnms: 1003 MDD pacing @ 60 pm; AutoCapture<sup>TM</sup> Pacing System OFF; SEGMs ON 11. Terms and conditions apply; refer to the warranty for details. 12. Healey JS, Connolly SJ, Gold MR, et al. on behalf of the ASSERT investigators. Sub-clinical atrial fibrillation and the risk of stroke: ASymptomatic atrial fibrillation and Stroke Evaluation in pacemaker patients and the AF Reduction atrial pacing Trial (ASSERT). N Engl J Med 2012; 366:120–129.



### Tendril<sup>™</sup> STS

#### **Pacing Lead**

#### Product Highlights - Pacing Lead

- The Tendril STS lead allows patients to undergo MRI scans when used in conjunction with a MRI Ready pacemaker from St. Jude Medical
  - Allows MRI scans (See Parameter Settings for scan exclusion zone)
  - Permits a maximum whole body averaged specific absorption rate (SAR) of 2 watts per kilogram (W/kg)
- Soft silicone tip offers more compliance and less tip pressure at the lead tip-endocardium interface
- Small diameter lead offers improved ease of venous passage, reduced risk of venous thrombosis or rib-clavicle crush and ability to accommodate additional leads more easily
- Optim<sup>™</sup> lead insulation—a chemical co-polymer that blends the best features of polyurethane and silicone for improved handling and increased durability
- Titanium nitride (TiN) fractal coating on the tip and ring electrodes is designed to promote precise sensing and to provide improved contact with the myocardium
- Lubricious Fast-Pass<sup>™</sup> coating facilitates lead insertion through the introducer and veins to ease implantation
- Fits through a 6 F introducer

#### Ordering Information - MRI-Ready Pacing System

Model Number	Description	Insulation	Fixation	Min. Introducer (F)	Connector	Length (cm)
2088TC	Tendril <sup>™</sup> STS Pacing Lead	Optim™	Ext/Ret helix	6	IS-1 bipolar	46*; <mark>52*; 58*;</mark> <mark>65;</mark> 100
* Indicates lead I	lengths that are MRI conditional	l with a scan ex	clusion zone.			

Model Number	Description	Dimensions (H x W x T, mm)	Weight (g)	Volume (cc)	Connector
PM1140	Endurity <sup>™</sup> Core Pacemaker	41 x 50 x 6	19	9,7 (± 0,5)	IS-1
PM2140	Endurity Core Pacemaker	46 x 50 x 6	19	10,4 (± 0,5)	IS-1
PM1152	Endurity Core Pacemaker	41 x 50 x 6	19	9,7 (± 0,5)	IS-1
PM2152	Endurity Core Pacemaker	46 x 50 x 6	19	10,4 (± 0,5)	IS-1
PM1162	Endurity Pacemaker	41 x 50 x 6	19	9,7 (±0,5)	IS-1
PM2162	Endurity Pacemaker	46 x 50 x 6	19	10,4 (± 0,5)	IS-1
PM1172	Endurity MRI <sup>™</sup> Pacemaker	41 x 50 x 6	19	9,7 (± 0,5)	IS-1
PM2172	Endurity MRI Pacemaker	46 x 50 x 6	19	10,4 (± 0,5)	IS-1
PM1272	Assurity MRI <sup>™</sup> Pacemaker	47 x 50 x 6	20	10,4 (±0,5)	IS-1
PM2272	Assurity MRI Pacemaker	47 x 50 x 6	20	10,4 (±0,5)	IS-1

Indications: Tendril<sup>™</sup> STS lead is designed for permanent sensing and pacing in either the right atrium or the right ventricle, in combination with a compatible device. Active leads such as the Tendril STS lead may be indicated for patients where permanent fixation of passive leads is suspected to be unstable.

In atrial applications, the use of screw-in leads such as Tendril STS lead may be indicated in the presence of an abnormal, surgically altered or excised atrial appendage.

**Contraindications**. Tendril STS lead is contraindicated: in the presence of tricuspid atresia, for patients with mechanical tricuspid valves, in patients who are expected to be hypersensitive to a single dose of one milligram of dexamethasone sodium phosphate.

Adverse Events: Potential complications associated with the use of Tendril STS lead are the same as with the use of other active fixation leads and include: cardiac tamponade, diaphragmatic stimulation, embolism, excessive bleeding, induced ventricular ectopy, infection, loss of pacing and/or sensing due to dislodgment or mechanical malfunction of the pacing lead, phrenic nerve stimulation, thrombosis. Complications reported with direct subclavian venipuncture include pneumothorax, hemothorax, laceration of the subclavian artery, arteriovenous fistula, neural damage, thoracic duct injury, cannulation of other vessels, massive hemorrhage and, rarely, death.

Refer to the User's Manual for detailed indications, contraindications, warnings, precautions and potential adverse events.





### Tendril<sup>™</sup> STS

**Pacing Lead** 

#### Product Specifications - Pacing Leads

Model	2088TC
Minimum Introducer Size	6 F
Type of Lead	Active-fixation, bipolar, steroid-eluting, endocardial, pacing lead
Lead Connector	IS-1 bipolar
Lead Lengths	46; 52; 58; 65; 100 cm
Fixation Mechanism	Extendable/Retractable helix
Typical Number of Rotations	
for Helix Extension	6-11 (straight stylet)
Lead Body Diameter	1,9 mm (max)
Tip-to-Ring Spacing	10 mm
Lead Tip Electrode (Cathode)	Active titanium-nitride-coated Pt/Ir helix (2,0 mm extension)
Tip Electrode Surface Area	6,9 mm <sup>2</sup>
Ring Electrode (Anode)	Titanium-nitride-coated Pt/Ir
Ring Electrode Surface Area	16 mm <sup>2</sup>
Mapping	Capable with titanium-nitride-coated Pt/Ir helix
Steroid	< 1 mg dexamethasone sodium phosphate
Inner Conductor/Outer Conductor	MP35N™* coil
Inner Insulation	Silicone rubber
Outer Insulation	Optim <sup>™</sup> lead insulation
Lead Body Coating	Fast-Pass <sup>™</sup> coating

Straight stylets 1 x-soft in lead; 1 x-soft; 1 soft J-curved stylets 2 soft Helix extension/retraction clip-on tools 2 clip-on tools

Accessory Kits Available Separately	Model Number	Compatible Lengths	Description
Stylet Kit	DSO6002 with appropriate length designation	46; 52; 58; 65; 100 cm	1 fixation tool; 1 clip-on tool; 1 J-shaped soft; 1 x-soft; 1 soft; 1 firm; 1 x-firm
	DSO6003 with appropriate length designation	46; 52; 58; 65; 100 cm	1 clip-on tool; 1 J-shaped soft; 1 x-soft; 1 soft; 1 firm; 1 x-firm
Locator™ Plus Deflectable Stylet	1281 with appropriate length designation	46; 52; 58; 65 cm	Disposable implant tool to facilitate precise lead positioning
-	1292 with appropriate length designation	46; 52; 58; 65 cm	and manipulation with one hand

#### MRI Conditional Parameters

Magnet strength: 1.5 Tesla SAR: ≤ 2 W/kg Scan region: Isocenter must be inferior to L4 or 10 cm superior to C1

\*MP35N is a trademark of SPS Technologies, Inc.



#### Customer Support: 46-8-474-4756

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use. Devices depicted may not be available in all countries. Check with your St. Jude Medical representative for product availability in your country.

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### EU Technical Documentation Assessment Certificate (MDR)

Pursuant to Regulation (EU) 2017/745 on Medical Devices, Annex IX Chapter II (Implantable Class IIb Devices and Class III Devices)

#### No. G70 014607 0258 Rev. 00

Manufacturer:

#### Abbott Medical

15900 Valley View Court Sylmar CA 91342 USA

SRN Manufacturer - US-MF-000010383

Authorized Representative: Abbott Medical The Corporate Village, Da Vincilaan 11 Box F1, 1935 Zaventem, BELGIUM

The Certification Body of TÜV SÜD Product Service GmbH certifies that the manufacturer has drawn up and presented a Technical Documentation according to Annex II and III of the Regulation (EU) 2017/745 on medical devices. Details on devices covered by the Technical Documentation are described on the following page(s)

The Report referenced below summarises the result of the assessment and includes reference to relevant CS, harmonized standards and test reports. The technical documentation assessment included an assessment of the clinical evaluation assessment.

The conformity assessment has been carried out according to Annex IX chapter II of this regulation with a positive result.

Changes to the approved device, where such changes could affect the safety and performance of the device or the conditions prescribed for use of the device, shall require approval from the notified body TÜV SÜD Product Service GmbH.

In order to place the devices on the market with CE-marking, an EU Quality Management System Certificate pursuant to Annex IX chapters I and III is necessary in addition to this EU Technical Documentation Assessment Certificate. All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:G70 014607 0258 Rev. 00

Report No.:

713261279

Valid from: Valid until: 2023-09-18 2028-09-17

Christoph Dicks Head of Certification/Notified Body

**Issue date:** 2023-09-18







### EU Technical Documentation Assessment Certificate (MDR)

Pursuant to Regulation (EU) 2017/745 on Medical Devices, Annex IX Chapter II (Implantable Class IIb Devices and Class III Devices)

### No. G70 014607 0258 Rev. 00

Classification: Device Group: Basic UDI-DI: Intended Purpose: Device(s):	Class III J01010101 - IMPLANTABLE SINGLE CHAMBER PACEMAKERS (SC) 5415067LVD0001JX The Abbott pacemakers are implantable pulse generators that, when used in combination with compatible pacing leads, are intended to detect and treat chronic symptomatic bradyarrhythmia and various atrioventricular conduction abnormalities by providing sensing and pacing in the right ventricle and/or right atrium. Endurity <sup>™</sup> Core PM1140
Classification: Device Group:	Class III J01010102 - IMPLANTABLE SINGLE CHAMBER PACEMAKERS WITH SENSOR (SR)
Basic UDI-DI:	5415067LVD0001JX
Intended Purpose:	The Abbott pacemakers are implantable pulse generators that, when used in combination with compatible pacing leads, are intended to detect and treat chronic symptomatic bradyarrhythmia and various atrioventricular conduction abnormalities by providing sensing and pacing in the right ventricle and/or right atrium.
Device(s):	Endurity <sup>™</sup> Core PM1152 Endurity <sup>™</sup> PM1162 Endurity MRI <sup>™</sup> PM1172 Assurity MRI <sup>™</sup> PM1272 Zenex MRI <sup>™</sup> PM1282 Zenus MRI <sup>™</sup> PM1182
Classification: Device Group:	Class III J01010301 - IMPLANTABLE DUAL CHAMBER PACEMAKERS (DC)
Basic UDI-DI: Intended Purpose:	5415067LVD0001JX The Abbott pacemakers are implantable pulse generators that, when used in combination with compatible pacing leads, are intended to detect and treat chronic symptomatic bradyarrhythmia and various atrioventricular conduction abnormalities by providing sensing and pacing in the right ventricle and/or right atrium.
Device(s):	Endurity™ Core PM2140









### EU Technical Documentation Assessment Certificate (MDR)

Pursuant to Regulation (EU) 2017/745 on Medical Devices, Annex IX Chapter II (Implantable Class IIb Devices and Class III Devices)

### No. G70 014607 0258 Rev. 00

Classification: Device Group: Basic UDI-DI: Intended Purpose: Device(s):	Class III J01010302 - IMPLANTABLE DUAL CHAMBER PACEMAKERS WITH SENSOR (DR) 5415067LVD0001JX The Abbott pacemakers are implantable pulse generators that, when used in combination with compatible pacing leads, are intended to detect and treat chronic symptomatic bradyarrhythmia and various atrioventricular conduction abnormalities by providing sensing and pacing in the right ventricle and/or right atrium. Endurity <sup>™</sup> Core PM2152 Endurity <sup>™</sup> PM2162 Endurity MRI <sup>™</sup> PM2172 Assurity MRI <sup>™</sup> PM2272 Zenex MRI <sup>™</sup> PM2282 Zenus MRI <sup>™</sup> PM2182
Classification: Device Group: Basic UDI-DI: Intended Purpose: Device(s):	Class III J01010401 - IMPLANTABLE TRIPLE CHAMBER PACEMAKERS FOR CARDIAC RESYNCHRONIZATION (TR) 5415067LVD0002JZ The CRT-P devices when used in combination with compatible pacing leads, are intended to detect and treat chronic symptomatic bradyarrhythmia and various atrioventricular conduction abnormalities by providing sensing and pacing in the ventricle(s) and/or right atrium. The CRT-P devices are intended to resynchronize the right and left ventricles via biventricular pacing. Allure™ RF PM3222 Quadra Allure™ PM3542 Quadra Allure MP™ PM3562 Quadra Allure MP™ RF PM3262

The validity of this certificate depends on conditions and/or is limited to the following:

**Revision History:** 

 Rev.
 Dated
 Report

 00
 2023-09-18
 713261279

**Description** Initial issuance

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Page 3 of 3 TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123 TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany



Abbott Medical 15900 Valley View Court, Sylmar, CA 91342 USA Tel: +1 818 3662 6822 Fax: +1 818 364 5814

00114571 Rev. A

### **Declaration of Conformity**

Manufacturer:	Abbott Medical			
Manufacturer SRN:	US-MF-000010383			
Address:	15900 Valley View Court			
	Sylmar, California 91342			
	United States of America			
Manufacturing Site(s):	Abbott Medical			
0	15900 Valley View Court			
	Sylmar, California 91342			
	United States of America			
	Abbott Medical			
	Lot A Interior - #2 Rd Km. 67.5 Santana Industrial Park,			
	Arecibo PR			
	United States of America			
	Abbott Medical			
	Plot 102, Lebuhraya Kampung Jawa, Bayan Lepas			
	Industrial Zone 11900 Penang			
	Malaysia			
European Authorized Representative:	Abbott Medical			
	The Corporate Village			
	Da Vincilaan 11 Box F1			
	1935 Zaventem,			
	Belgium			
European Authorized Representative SRN:	BE-AR-000008744			

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product Trade Name(s):	See attached Product List
Model Number(s):	See attached Product List
Intended Purpose:	The Abbott pacemakers are implantable pulse generators that, when used in combination with
	compatible pacing leads, are intended to detect and treat

Signature:	
	October 12, 2023
Colleen Canan	Issue Date
Divisional Vice President	
Regulatory Affairs	On behalf of Abbott Medical, signed at Sylmar, CA.

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### **MDR Declaration of Conformity**

	chronic symptomatic bradyarrhythmia and various atrioventricular conduction abnormalities by providing sensing and pacing in the right ventricle and/or right atrium. The CRT-P devices when used in combination with
	compatible pacing leads, are intended to detect and treat chronic symptomatic bradyarrhythmia and various atrioventricular conduction abnormalities by providing sensing and pacing in the ventricles and/or right atrium. The CRT-P devices are intended to resynchronize the right and left ventricles via biventricular pacing. The torque driver is intended to secure lead connectors and port plugs within the device header.
Risk Classification:	Class III as per EU MDR 2017/745 per Annex VIII
Risk Classification Rationale:	Annex VIII, Rule 8, 6th Indent
EMDN Code(s):	See attached Product list.
GMDN Code:	See attached Product list.
Basic UDI-DI:	Implantable Single and Dual Chamber Pacemakers: 5415067LVD0001JX
	Implantable Triple Chamber Pacemakers (CRT-P): 5415067LVD0002JZ

The products described in this declaration are in conformity with all applicable EU harmonized legislation, including:

#### • Regulation (EU) 2017/745, and the applicable General Safety & Performance Requirements in Annex 1

Common Specifications	Not Applicable.
Applied:	No common specifications are available for this type of
	device
Notified Body:	TÜV SÜD Product Service GmbH
	Ridlerstraße 65
~	80339 Munich
	Germany
	ID Number: 0123
Supporting Certificate(s):	Technical Documentation Assessment Certificate Number:
	G70 014607 0258 Rev. 00
	Expiration Date: 2028-09-17

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### **MDR Declaration of Conformity**

	EU Quality Management System Certificate: G12 014607 0255 Rev. 05 Expiration Date: 2027-08-14	
Original CE Mark Date:	See attached Product List.	
Conformity Assessment:	EU MDR 2017/745, Annex IX	

The products in the attached Declaration of Conformity Product List are approved under EC Certificate G70 014607 0258 Rev. 00.

#### **Declaration of Conformity Product List**

Model No.	Product Trade Name	Original CE Mark Date	EMDN Code	GMDN Code	Basic UDI-DI
PM1140	Endurity <sup>™</sup> Core	2015-07-24	J01010101	47267	5415067LVD0001JX
PM1152	Endurity™ Core		J01010101	47267	5415067LVD0001JX
PM2140	Endurity™ Core		J01010301	47265	5415067LVD0001JX
PM2152	Endurity™ Core		J01010301	47265	5415067LVD0001JX
PM1162	Endurity™	- 2014-12-18	J01010101	47267	5415067LVD0001JX
PM2162	Endurity™		J01010301	47265	5415067LVD0001JX
PM1172	Endurity MRI™		J01010101	47267	5415067LVD0001JX
PM2172	Endurity MRI™		J01010301	47265	5415067LVD0001JX
PM1272	Assurity MRI™		J01010101	47267	5415067LVD0001JX
PM2272	Assurity MRI™		J01010301	47265	5415067LVD0001JX
PM2282	Zenex MRI™	2018-10-12	J01010301	47265	5415067LVD0001JX
PM1282	Zenex MRI™		J01010101	47267	5415067LVD0001JX
PM2182	Zenus MRI™		J01010301	47265	5415067LVD0001JX
PM1182	Zenus MRI™		J01010101	47267	5415067LVD0001JX
PM3222	Allure™ RF	2013-03-07	J01010401	47263	5415067LVD0002JZ
PM3542	Quadra Allure™	2016-10-21	J01010401	47263	5415067LVD0002JZ
PM3262	Quadra Allure MP™	2013-03-07	J01010401	47263	5415067LVD0002JZ
PM3562	Quadra Allure MP™	2016-10-21	J01010401	47263	5415067LVD0002JZ

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### Certificate No. Q5 014607 0231 Rev. 03

Holder of Certificate:

Abbott Medical

15900 Valley View Court Sylmar CA 91342 USA

**Certification Mark:** 



Scope of Certificate: Design and Development, Production and Distribution of Implantable Pulse Generators and Implantable Cardioverter Defibrillators, Implantable Leads for AIMDs, Programmers for AIMDs, Application Software (external), Cardiac Rhythm Management Device Accessories (adapters, stylets, guidewires, tools, etc.)

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:Q5 014607 0231 Rev. 03

Report No.:

2022-08-12

713237689

Valid from: Valid until: 2022-08-12 2025-03-31

Date,

Christoph Dicks Head of Certification/Notified Body





### Certificate No. Q5 014607 0231 Rev. 03

Applied Standard(s): EN ISO 13485:2016 Medical devices - Quality management systems -Requirements for regulatory purposes (ISO 13485:2016) DIN EN ISO 13485:2016

Facility(ies):

Abbott Medical 15900 Valley View Court, Sylmar CA 91342, USA

Design and Development, Production and Distribution of Implantable Pulse Generators and Implantable Cardioverter Defibrillators, Implantable Monitoring and Recording Systems, Implantable Leads for AIMDs, Programmers for AIMDs, Application Software (external), Cardiac Rhythm Management Device, Accessories (adapters, stylets, guidewires, tools, etc)

Abbott Medical 645 Almanor Avenue, Sunnyvale CA 94085, USA

Design and Development of Implantable Pulse Generators and Implantable Cardioverter Defibrillators, Implantable Monitoring and Recording Systems, Implantable Leads for AIMDs, Programmers for AIMDs, Application Software (external), Cardiac Rhythm Management Device Accessories (adapters, stylets, guidewires, tools, etc.); and returned product analysis of Implantable Cardioverter Defibrillators, Implantable Monitoring and Recording Systems and Cardiac Rhythm Management Device Accessories







# CERTIFICATE



This is to certify that



# SANTE INTERNATIONAL S.A.

Str. Mantuleasa nr. 33, Sector 2 023961 Bucuresti Romania

has implemented and maintains a Quality Management System.

Scope:

Import, trade and storage of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices, service for medical and laboratory equipment. Consulting for state and private medical units.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

# ISO 9001 : 2015

Certificate registration no.	497269 QM15		
Valid from	2021-06-16		
Valid until	2024-06-15		
Date of certification	2021-06-16		



#### DQS GmbH

Markus Bleher Managing Director







#### Annex to certificate Registration No. 497269 QM15

### SANTE INTERNATIONAL S.A.

Str. Mantuleasa nr. 33, Sector 2 023961 Bucuresti Romania

Location

075906 Sante International SA Sos. Mihai Bravu nr. 7, bl. P37-P37A, sector 2 021303 Bucuresti Romania

497270 Sante International SA Str. Pupitrului, nr. 81, sect. 3 033036 Bucuresti Romania

31050285 Sante International SA Calea Ghirodei, nr. 36 300327 Timisoara Romania

31050284 Sante International SA Calea Dorobantilor, nr. 111 400609 Cluj-Napoca Romania

31050283 Sante International SA Str. Lascar Catargi, nr. 37 700107 Iasi Romania Scope

Import, trade and storage of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices. Consulting for state and private medical units.

Storage of medical and laboratory equipment, disinfectants, laboratory reagents,cardiovascular surgery devices, service for medical and laboratory equipment. Consulting for state and private medical units.

Trade of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices, service for medical and laboratory equipment. Consulting for state and private medical units.

Trade of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices, service for medical and laboratory equipment. Consulting for state and private medical units.

Trade of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices, service for medical and laboratory equipment. Consulting for state and private medical units.



This annex (edition:2021-06-16) is only valid in connection with the above-mentioned certificate.