ST. JUDE MEDICAL

Endurity MRI™

Dual-Chamber Pacemaker

Product Highlights - Pacemaker

The Endurity MRI™ pacemaker is designed to allow patients to undergo MRI scans:

- When combined with the Tendril MRI™ 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™ 2088TC or IsoFlex™ Optim™ 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.¹⁰ which is supported by an 8-year warranty¹¹
- AutoCapture™ pacing system offers the maximum in threshold adaptability and patient safety with ventricular Beat-by-Beat™ 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™) technology, the AF Suppression™ algorithm and Sense Ability™ 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 AF¹²
- 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™ 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 [™] Pacemaker	46 x 50 x 6	19	$10,4 (\pm 0,5)$	IS-1

				Min.		
Model Number	Description	Insulation	Fixation	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 bilateral bundle 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 significant bradycardia and normal ainus 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, cronic atrial flutter, and 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, device 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, palpitations with high-rate pacing.

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



Endurity MRI™

Dual-Chamber Pacemaker

Product Specifications - Pacemaker

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

Remote Monitoring

Compatible with Merlin@home™ Transmitter

ARAMETER	SETTING

Rate/Timing

Atrial Pace Refractory (ms)
Atrial Sense Refractory (ms)
Paced AV Delay (ms)
Base Rate (min⁻¹)
Far-Field Protection Interval (ms) Hysteresis Rate (min-1) Search Interval (min) Cycle Count Intervention Rate (min⁻¹)

Intervention Duration (min) Recovery Time Maximum Tracking Rate (min⁻¹)

Post Ventricular Atrial Blanking (ms) PVARP (ms) Sensed AV Delay (ms) Sensed AV Delay (ms)
Rest Rate (min⁻¹)
Rate Responsive AV Delay
Rate Responsive PVARP/VREF
Shortest AV Delay (ms)
Shortest PVARP/VREF (ms)
Ventricular Blanking (ms)
Ventricular Pace/Sense Refractory⁶
(Fixed) (ms)

190-400 in steps of 30; 440; 470² 93; 125; 157; 190-400 in steps of 30; 440; 470² 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

30-130 in steps of 5; 140-170 in steps of 10 163
Off, 30-150 in steps of 5
Off; 1, 5; 10; 15; 30
1-16 in steps of 1
Off, Same as Base Rate; 80-120 in steps of 10; Intrinsic +0; Intrinsic +10; Intrinsic +20; Intrinsic +30
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); AAI(R); VOO(R); VVI(R); VVI(R); VVI(R); DDI(R); DDI OTF, 30-130 in steps of 5 Off, Low; Medium; High Off, 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 ²

Output/Sensing

ACap™ Confirm

Primary Pulse Configuration

Backup 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

Ventricular AutoCapture™ Pacing System
Primary Pulse Configuration Primary Pulse Configuration
Backup Pulse Amplitude (V)
Search Interval (hours)
AutoCapture
Paced/Sensed AV Delay (ms) Atrial Sensitivity (mV)

Ventricular Sensitivity (mV) Sense*Ability*™ Technology

A Max Sensitivity (mV) V Max Sensitivity (mV) Threshold Start

Decay Delay (ms)

On; Off; Monitor Bipolar Bipolar

Bilpoiar 5,0 8; 24 0,0 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)

On: Off Unipolar; Bipolar Unipolar; Bipolar 5.03 8: 24

50/25; 100/70; 120/100

 $\begin{array}{l} 50/25; \, 100/70; \, 120/100 \\ 0,1-0,4^6 \, \text{in steps of } 0,1; \, 0,5; \, 0,75-2,0 \, \text{in steps of } 0,25; \\ 2,5-4,0 \, \text{in steps of } 0,5; \, 5,0^7 \\ 0,5-5,0 \, \text{in steps of } 0,5; \, 6-10 \, \text{in steps of } 1,0; \, 12,5^7 \\ 0,5-5,0 \, \text{in steps of } 0,5; \, 6-10 \, \text{in steps of } 1,0; \, 12,5^7 \\ 0,5,0 \, \text{in steps of } 0,1; \, 0,2-1,0 \, \text{in steps of } 0,1 \\ 0,2-2,0 \, \text{in steps of } 0,1 \\ 0,2-2,0 \, \text{in steps of } 0,1 \\ 0,2-2,0 \, \text{in steps of } 0,1 \\ 0,2-1,0 \, \text{in steps$

Rate-Modulated Parameters

Maximum Sensor Rate (min-1) Reaction Time Recovery Time Sensor

Threshold **AF Management**

AF Suppression™ Algorithm

Lower Rate Overdrive (min⁻¹)

Upper Rate Overdrive (min⁻¹)

No. of Overdrive Pacing Cycles Rate Recovery (ms) Maximum AF

80-150 in steps of 5; 160-180 in steps of 10 80-150 In steps of 1: b00-180 In steps of 10 Very Fast; Fast; Medium; Slow Fast; Medium; Slow; Very Slow On; Off; Pasto; Horological Auto (-1); Auto (+0); Auto (+1); Auto (+2); Auto (-4); 1-16 in steps of 1 Auto (-0.5); Auto (+0.5); Auto (+0.5); Auto (+1.0); Auto (+1.5); Auto (+2.0); 1-7 in steps of 0,5

15-40 in steps of 5

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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Atrial Tachycardia Detection Rate (min⁻¹) Auto Mode Switch

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

110-200 in steps of $10;\,225\text{-}300$ in steps of 25 Off; DDD(R) to DDI(R); DDD(R) to DDT(R); DDD(R) to VVI(R); DDD(R) to VVI(R); VDD(R) to VVI(R); VDD(R) to VVI(R); VDD(R) to VVI(R) to VVI(R) to VVI(R)

AMS Base Rate (min-1)

Stored Electrograms

Options Priority Ontions Off; Low; High 1; 2; 3 Channel Channel Triggers Advanced Hysteresis AMS Entry/AMS Exit/ AMS Entry and Exit AT/AF Detection Off; Low; High Off; Low; High Off; Low; High Off; Low; High ATAR Detection
Magnet Response
High Atrial Rate
Rate (min*)
No. of Consecutive Cycles
High Ventricular Rate
Rate (min*)
No. of Consecutive Cycles
PMT Termination
Consecutive PVC's 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 Consecutive PVCs Off; Low; High No. of Consecutive PVCs Off; Low; High

A and V Low Impedance Limit (Ω)

A and V High Impedance Limit (Ω) Hand Vingi impedance Limit (17)
Lead Type
Magnet Response
Negative AV Hysteresis Search (ms)
NIPS Options Stimulation Chamber Coupling Interval (ms) SI Count
SI⁹, S2; S3 and S4 Cycle (ms)
Ventricular Support Rate (min⁻¹)
Sinus Node Recovery Delay (sec)
PMT Options
PMT Detection Rate (min⁻¹)

A and V Lead Monitoring

PVC Response PVC Response Ventricular Intrinsic Preference, VIP™ (ms) VIP Search Interval VIP Search Cycles Ventricular Safety Standby Diagnostic Trends

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

Atrial; Ventricular 100-800 in steps of 108 100-800 in Steps of 1 Off; 100-800 in steps of 10 (Fixed or Adaptive) Off; 30-95 in steps of 5 1; 2; 3; 4; 5 Off; Passive; Attrial Pace² 90-180 in steps of 5 Off; Atrial Pace²

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, 0n

AT/AF Activity: Exercise: Lead Impedance: P and R Wave: A and V Threshold

MRI Settings

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

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 mus	sion zone et be inferior to L4 st be inferior to L4	or 10 cm superior to C1 For superior to C1 For superior to C1
Lead Tendril MRI LPA1200M Lead	Lead Lengths 46, 52, 58 cm	Magnet 1.5T	SAR ≤ 4 W/kg	MR SAR 1.5T 4
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	SAR 1.5T

1. ± U, 0 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 ¹ 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 haversine test signal.

7. Sensinvity is with respect to a zu him serversine text signal.

8. 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 Ve 0,4 ms; 500 ohms; 100% DDD pacing @ 60 bpm; AutoCaptureTM 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 Stroke Evaluation in pacemaker patients and the AF Reduction atrial pacing Trial (ASSERT).

N Eng I J Med 2012; 366:120 –129.



Tendril[™] 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[™] 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™ coating facilitates lead insertion through the introducer and veins to ease implantation
- Fits through a 6 F introducer



Model Number	Description	Insulation	Fixation	Min. Introducer (F)	Connector	Length (cm)
2088TC	Tendril™ STS Pacing Lead	Optim™	Ext/Ret helix	6	IS-1 bipolar	46*; <mark>52*; 58</mark> *; 65; 100

^{*} Indicates lead lengths that are MRI conditional with a scan exclusion zone.

Description	Dimensions (H x W x T, mm)	Weight (g)	Volume (cc)	Connector
Endurity [™] Core Pacemaker	41 x 50 x 6	19	9,7 (± 0,5)	IS-1
Endurity Core Pacemaker	46 x 50 x 6	19	$10,4 (\pm 0,5)$	IS-1
Endurity Core Pacemaker	41 x 50 x 6	19	9,7 (± 0,5)	IS-1
Endurity Core Pacemaker	46 x 50 x 6	19	10,4 (± 0,5)	IS-1
Endurity Pacemaker	41 x 50 x 6	19	9,7 (±0,5)	IS-1
Endurity Pacemaker	46 x 50 x 6	19	$10,4 (\pm 0,5)$	IS-1
Endurity MRI™ Pacemaker	41 x 50 x 6	19	9,7 (± 0,5)	IS-1
Endurity MRI Pacemaker	46 x 50 x 6	19	10,4 (± 0,5)	IS-1
Assurity MRI [™] Pacemaker	47 x 50 x 6	20	10,4 (±0,5)	IS-1
Assurity MRI Pacemaker	47 x 50 x 6	20	10,4 (±0,5)	IS-1
	Endurity™ Core Pacemaker Endurity Core Pacemaker Endurity Core Pacemaker Endurity Core Pacemaker Endurity Pacemaker Endurity Pacemaker Endurity Pacemaker Endurity MRI™ Pacemaker Endurity MRI Pacemaker Assurity MRI™ Pacemaker	Endurity™ Core Pacemaker 41 x 50 x 6 Endurity Core Pacemaker 46 x 50 x 6 Endurity Core Pacemaker 41 x 50 x 6 Endurity Core Pacemaker 46 x 50 x 6 Endurity Pacemaker 41 x 50 x 6 Endurity Pacemaker 46 x 50 x 6 Endurity Pacemaker 46 x 50 x 6 Endurity MRI™ Pacemaker 41 x 50 x 6 Endurity MRI™ Pacemaker 46 x 50 x 6 Endurity MRI Pacemaker 46 x 50 x 6 Assurity MRI™ Pacemaker 47 x 50 x 6	Endurity $^{\text{M}}$ Core Pacemaker 41 x 50 x 6 19 Endurity Core Pacemaker 46 x 50 x 6 19 Endurity Core Pacemaker 41 x 50 x 6 19 Endurity Core Pacemaker 46 x 50 x 6 19 Endurity Pacemaker 41 x 50 x 6 19 Endurity Pacemaker 46 x 50 x 6 19 Endurity MRI $^{\text{M}}$ Pacemaker 41 x 50 x 6 19 Endurity MRI Pacemaker 46 x 50 x 6 19 Endurity MRI Pacemaker 46 x 50 x 6 19 Assurity MRI $^{\text{M}}$ Pacemaker 47 x 50 x 6 20	Endurity™ Core Pacemaker $41 \times 50 \times 6$ 19 9,7 (± 0,5) Endurity Core Pacemaker $46 \times 50 \times 6$ 19 10,4 (± 0,5) Endurity Core Pacemaker $41 \times 50 \times 6$ 19 9,7 (± 0,5) Endurity Core Pacemaker $46 \times 50 \times 6$ 19 10,4 (± 0,5) Endurity Pacemaker $41 \times 50 \times 6$ 19 9,7 (±0,5) Endurity Pacemaker $46 \times 50 \times 6$ 19 10,4 (± 0,5) Endurity MRI™ Pacemaker $41 \times 50 \times 6$ 19 9,7 (± 0,5) Endurity MRI Pacemaker $46 \times 50 \times 6$ 19 9,7 (± 0,5) Endurity MRI Pacemaker $46 \times 50 \times 6$ 19 10,4 (± 0,5) Assurity MRI™ Pacemaker $47 \times 50 \times 6$ 20 10,4 (±0,5)

Indications: Tendril™ 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[™] STS

Pacing Lead

Product Specifications - Pacing Leads

PHYSICAL SPECIFICATIONS

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 mm²

Ring Electrode (Anode) Titanium-nitride-coated Pt/Ir

Ring Electrode Surface Area 16 mm²

 $\begin{tabular}{lll} Mapping & Capable with titanium-nitride-coated Pt/Ir helix \\ Steroid & <1 \, mg \, dexamethasone sodium phosphate \\ \end{tabular}$

 Inner Conductor/Outer Conductor
 MP35N™* coil

 Inner Insulation
 Silicone rubber

 Outer Insulation
 Optim™ lead insulation

 Lead Body Coating
 Fast-Pass™ coating

In Pack

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	DS06002 with appropriate	46; 52; 58; 65; 100 cm	1 fixation tool; 1 clip-on tool;
	length designation		1 J-shaped soft; 1 x-soft;
			1 soft; 1 firm; 1 x-firm
	DS06003 with appropriate	46; 52; 58; 65; 100 cm	1 clip-on tool; 1 J-shaped soft;
	length designation		1 x-soft; 1 soft; 1 firm; 1 x-firm
Locator™ Plus	1281 with appropriate	46; 52; 58; 65 cm	Disposable implant tool to
Deflectable Stylet	length designation		facilitate precise lead positioning
	1292 with appropriate	46; 52; 58; 65 cm	and manipulation with one hand
	length designation		

MRI Conditional Parameters

Magnet strength: 1.5 Tesla

 $SAR: \le 2 W/kg$

Scan region: Isocenter must be inferior to L4 or 10 cm superior to C1



*MP35N is a trademark of SPS Technologies, Inc.

 $\textbf{Customer Support:}\ 46\text{-}8\text{-}474\text{-}4756$

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 Abbott Medical

The Corporate Village, Da Vincilaan 11 Box F1, 1935 Zaventem, Representative:

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

713261279 Report No.:

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

Christoph Dicks

Issue date: 2023-09-18 Head of Certification/Notified Body





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: Class III

Device Group: J01010101 - IMPLANTABLE SINGLE CHAMBER PACEMAKERS

(SC)

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[™] Core PM1140

Class III Classification:

Device Group: 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.

Endurity™ Core PM1152 Device(s):

Endurity™ PM1162 Endurity MRI™ PM1172 Assurity MRI™ PM1272 Zenex MRI™ PM1282 Zenus MRI™ PM1182

Classification: Class III

J01010301 - IMPLANTABLE DUAL CHAMBER PACEMAKERS **Device Group:**

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.

Endurity™ Core PM2140 Device(s):







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: Class III

Device Group: J01010302 - IMPLANTABLE DUAL CHAMBER PACEMAKERS

WITH SENSOR (DR)

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[™] Core PM2152

Endurity™ PM2162 Endurity MRI™ PM2172

Assurity MRI™ PM2272 Zenex MRI™ PM2282 Zenus MRI™ PM2182

Classification: Class III

Device Group: J01010401 - IMPLANTABLE TRIPLE CHAMBER PACEMAKERS

FOR CARDIAC RESYNCHRONIZATION (TR)

Basic UDI-DI: 5415067LVD0002JZ

Intended Purpose: 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.

Device(s): Allure™ RF PM3222

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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
 Description

 00
 2023-09-18
 713261279
 Initial issuance





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 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:	
L'anan	October 12, 2023
Colleen Canan	Issue Date
Divisional Vice President	
Regulatory Affairs	On behalf of Abbott Medical, signed at Sylmar, CA.
28136 MDP Declaration of Conformity Template Rev H	Page 1 of 3

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00114571 Rev. A

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

The signature is applied on page 1 88136 MDR Declaration of Conformity Template Rev H



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

00114571 Rev. A

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. EU MDR 2017/745, Annex IX			
Conformity Assessment:				

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™ 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







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.: 713237689

 Valid from:
 2022-08-12

 Valid until:
 2025-03-31

Date, 2022-08-12 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









Annex to certificate Registration No. 497269 QM15

SANTE INTERNATIONAL S.A.

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

Location

Romania

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

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.

