Pacemakers

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 (± 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, 52, 58
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 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, infertion, 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 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[™]

Dual-Chamber Pacemaker

Product Specifications - Pacemaker

PM2172 PM2172 Inductive 46 x 50 x 6 19 10,4¹ IS-1

SETTING

PHYSICAL SPECIFICATIONS Model Telemetry Dimensions (mm) Weight (g) Volume (cc) Connector

Remote Monitoring

PARAMETER

Compatible with Merlin@home[™] Transmitter

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) Cvele Count	190-400 in steps of 30; 440; 470 ² 93; 125; 157; 190-400 in steps of 30; 440; 470 ² 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 ² 0ff; 30 ⁴ -150 in steps of 5 0ff; 1; 5; 10; 15; 30 1-16 in steps of 1
Intervention Rate (min ⁻¹)	Off; Same as Base Rate; 80-120 in steps of 10; Intrinsic +0;
Intervention Duration (min) Recovery Time Maximum Tracking Rate (min ⁻¹) Mode	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), VAD(R); VV1(R); VVT(R); VDD(R); D00(R); DV1(R); DD1(R); DD0(R); Pacing Off
Pest Ventricular Atrial Blanking (ms) PVARP (ms) Sensed AV Delay (ms) Rest Rate (min ⁻¹) Rate Responsive AV Delay Rate Responsive AV Delay Rate Responsive FVARP/VREF Shortest PVARP/VREF (ms) Ventricular Pace/Sense Refractory ⁶ (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 10; 225-325 in steps of 25 0ff, 10w; 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 ²
Output/Sensing	
ACap [™] Confirm Primary Pulse Configuration Backup Pulse Configuration Backup Pulse Amplitude (V)	On; Off; Monitor Bipolar Bipolar 5,0

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 Width (ms) A or V Pulse Width (ms) A or V Sense Configuration Ventricular AutoCapture ¹⁴⁴ Pacing System Primary Pulse Configuration Backup Pulse Configuration Backup Pulse Amplitude (V) Search Interval (hours)	Bipolar Bipolar 5,0 8,24 0,25-4,0 in steps of 0,25; 4,5-7,5 in steps of 0,5 0,25-4,0 in steps of 0,1 Unipolar (tip-case); Bipolar (tip-ring) Unipolar Tip (tip-case); Bipolar (tip-ring); Unipolar Tip (tip-case) On; Off Unipolar; Bipolar Unipolar; Bipolar Unipola; Bipolar 5,0 ⁰ 8; 24
AutoCapture Paced/Sensed AV Delay (ms) Atrial Sensitivity (mV) Ventricular Sensitivity (mV) SenseAbility™ Technology A Max Sensitivity (mV) V Max Sensitivity (mV) Threshold Start Decay Delay (ms)	50/25; 100/70; 120/100 0,1-0,4 ⁴ 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; 5,0' 0,5-5,0 in steps of 0,5; 6-10 in steps of 1,0; 12,5' Off; On (Automatic Sensitivity Control adjustment for atrial and ventricular events) 0,2-1,0 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-Sense) 50; 60; 95; 125; 160; 190; 220
Rate-Modulated Parameters	(Atrial Post-Pace) 0; 30; 60; 95; 125; 160; 190; 220 (Ventricular Post-Pace) Auto; 0; 30; 60; 95; 125; 160; 190; 220
Maximum Sensor Rate (min ⁻¹) Reaction Time Recovery Time Sensor Slope Threshold AF Management	80-150 in steps of 5; 160-180 in steps of 10 Very Fast; Fast; Medium; Slow Fast; Medium; Slow; Very Slow On; Off; Passive Auto (-1); Auto (+0); Auto (+1); Auto (+2); Auto (+3); 1-16 in steps of 1 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
AF Suppression [™] Algorithm Lower Rate Overdrive (min ⁻¹)	Off; On 10 ³

15-40 in steps of 5 Upper Rate Overdrive (min⁻¹) No. of Overdrive Pacing Cycles Rate Recovery (ms) Maximum AF

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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Suppression Rate (min-1) 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; 225-300 in steps of 25 Off, DDD(R) to DDI(R); DDD(R) to DTI(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

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 (mir¹) No. of Consecutive Cycles High Ventricular Rate Rate (mir¹) No. of Consecutive Cycles PMT Termination Consecutive PVCs Consecutive PVCs No. of Consecutive PVCs Noise Reversion

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 Off; Low; High 2:3:4:5 Off; Low; High

Off; Low; High 1; 2; 3

Off; Low; High

A and V Lead Monitoring

A and V Low Impedance Limit (Ω) A and V High Impedance Limit (Ω) Lead Type Magnet Response Negative AV Hysteresis Search (ms) NIPS Options Stimulation Chamber 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) PVC Response **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 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 Pace² 0, 120 is erg of 5 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

Other

MRI Mode MRI Base Rate MRI Paced AV Delay MRI Atrial Pulse Configuration 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 MRI Atrial Pulse Amplitude MRI Atrial Pulse Width MRI AUTAI Fuise Width MRI RV Pulse Configuration MRI RV Pulse Amplitude MRI RV Pulse Width 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	Lead Lengths	Magnet	SAR	LST A
Tendril MRI LPA1200M Lead	46, 52, 58 cm	1.5T	≤4W/kg	
Tendril 2088TC Lead	46, 52, 58 cm	1.5T	≤ 2 W/kg	I.ST SAR
IsoFlex 1944 Lead	46, 52 cm	1.5T	≤ 2 W/kg	
IsoFlex 1948 Lead	52, 58 cm	1.5T	≤ 2 W/kg	

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 min⁴ 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.

. / sensitivity is with respect to a 20 ms haversine test signal.
. Supring atria MPS in dual-chamber modes, the shortest Coupling Interval will be limited by the programmed AV/PV delay.
9.51 Burst Cycle is applied at the preprogrammed SI cycle length.
10. A, V = 2,5 V @ 0,4 ms; 500 ohms; 100% DDD pacing @ 60 bpm; AutoCapture™ 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[™] 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

Ordering Information - MRI-Ready Pacing System

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*; 52*; 58*; 65; 100
* Indicates lead lengths that are MRI conditional with a scan exclusion zone.						

Model Number	Description	Dimensions (H x W x T, mm)	Weight (g)	Volume (cc)	Connector
PM1140	Endurity [™] 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 [™] 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 [™] 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[™] 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

Model	2088TC
Minimum Introducer Size	6 F
Type of Lead	Active-fixation, bipolar, steroid-eluting, endocardial, pacing lea
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 ²
Ring Electrode (Anode)	Titanium-nitride-coated Pt/Ir
Ring Electrode Surface Area	16 mm ²
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™ 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 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: $\leq 2 \text{ W/kg}$ 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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EC Certificate

EC Design-Examination Certificate Directive 90/385/EEC on Active Implantable Medical Devices (AIMDD), Annex 2 (4) (Other devices than custom made or intended for clinical investigation)

No. 17 014607 0234 Rev. 00

	Ma	nufa	ctu	rer:
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St. Jude Medical Cardiac Rhythm Management Division

15900 Valley View Court Sylmar CA 91342 USA

EC-Representative:

St. Jude Medical Coordination Center BVBA The Corporate Village, Da Vincilaan 11 Box F1, 1935 Zaventem, BELGIUM

Product:

Implantable Pacemakers

The Certification Body of TÜV SÜD Product Service GmbH declares that a design examination has been carried out on the respective devices in accordance with AIMDD Annex 2 (4). This design of the devices conforms to the requirements of this Directive. For marketing of these devices an additional Annex 2 certificate is mandatory. See also notes overleaf.

Report no.:

713149860

Valid from: Valid until: 2019-06-15 2024-05-26

Date, 2

2019-06-14

1. Pumil

Stefan Preiß

A4 / 07 17





EC Certificate

EC Design-Examination Certificate Directive 90/385/EEC on Active Implantable Medical Devices (AIMDD), Annex 2 (4) (Other devices than custom made or intended for clinical investigation)

No. 17 014607 0234 Rev. 00

see	below				
	St. Jude Medical Cardiac Rhythm Management Division 15900 Valley View Court, Sylmar CA 91342, USA				
Lot A	Interior - #2 Rd Km. 6	o LLC 7.5, Santana Industrial Park, Arecibo			
Plot 1	St. Jude Medical Operations (M) Sdn.Bhd. Plot 102, Lebuhraya Kampung Jawa, Bayan Lepas Industrial Zone, 11900 Penang, MALAYSIA				
./.					
		Rhythm Management Division Sylmar, CA 91342, USA			
Imp	plantable Pacemake	rs			
70069297					
	Model No.:	Variant:			
	2525 T				
70110810					
	Model No.:	Variant:			
	5620 5820 5826				
	St. Ji 1590 St. Ji Lot A PR 0 St. Ji Plot 1190 ./. St. 159 Imp 70069297	15900 Valley View Court, Sy St. Jude Medical Puerto Ric Lot A Interior - #2 Rd Km. 6 PR 00612, USA St. Jude Medical Operations Plot 102, Lebuhraya Kampu 11900 Penang, MALAYSIA ./. St. Jude Medical Cardiac I 15900 Valley View Court, Implantable Pacemake 70069297 70069297 70069297 70110810 Model No.: 5620 5820			

Page 2 of 4 TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123



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Benannt durch/Designated by Zentralstelle der Länder für Gesundheitsschutz bei Arzneimitteln und Medizinprodukten ZLG-BS-200.14.03



EC Certificate

EC Design-Examination Certificate Directive 90/385/EEC on Active Implantable Medical Devices (AIMDD), Annex 2 (4) (Other devices than custom made or intended for clinical investigation)

No. I7 014607 0234 Rev. 00

Test Report No.:	71321436		
Model:		Model No.:	Variant:
Zephyr™ XL SR		5626	
Test Report No.:	713017309_1		
Model:		Model No.:	Variant:
Assurity™ Assurity™ Endurity™ Endurity™ Allure™ Allure™ RF Allure Quadra™ RF		PM1240 PM2240 PM1160 PM2160 PM3120 PM3222 PM3242	
Test Report No.:	713028360		
Model:		Model No.:	Variant
Quadra Allure MP™	'RF	PM3262	
Test Report No.:	713043621		
Model:		Model No.:	Variant:
Assurity MRI™ Assurity MRI™ Endurity MRI™ Endurity MRI™ Endurity™ Endurity™		PM1272 PM2272 PM1172 PM2172 PM1162 PM2162	MR Conditional MR Conditional MR Conditional MR Conditional MR Conditional MR Conditional

Page 3 of 4 TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123

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EC Certificate

EC Design-Examination Certificate Directive 90/385/EEC on Active Implantable Medical Devices (AIMDD), Annex 2 (4) (Other devices than custom made or intended for clinical investigation) **No. I7 014607 0234 Rev. 00**

Test Report No.: 713057320

Model:	Model No.:	Variant:
Endurity™ Core	PM1140	MR Conditional
Endurity™ Core	PM2140	MR Conditional
Endurity™ Core	PM1152	MR Conditional
Endurity™ Core	PM2152	MR Conditional

Test Report No.: 713084189

Model:	Model No.:	Variant:
Quadra Allure™	PM3542	MR Conditional
Quadra Allure MP™	PM3562	MR Conditional

Test Report No.: 713130819

Test Report No	713130819		
Model:		Model No.:	Variant:
Zenex™		PM1250	
Zenex™		PM2250	
Zenus™		PM1170	
Zenus™		PM2170	
Zenex MRI™		PM1282	MR Conditional
Zenex MRI™		PM2282	MR Conditional
Zenus MRI™		PM1182	MR Conditional
Zenus MRI™		PM2182	MR Conditional



SJM Declaration of Conformity Implantable Pacemakers ATTACHMENT TO DECLARATION OF CONFORMITY

St. Jude Medical (SJM) hereby declares that the following SJM facilities and products conform to the applicable provisions of Annex 2 the European Union's Active Implantable Medical Devices Directive, AIMDD, 90/385/EEC. All supporting documentation is retained under the premises of SJM. We declare no application has been lodged with any other notified body for the same products. This declaration is issued under the sole responsibility of the manufacturer. This declaration supersedes any declaration issued previously for the same product(s).

Manufacturer Address:	St. Jude Medical Cardiac Rhythm Management Division 15900 Valley View Court Sylmar, CA 91342
European Representative:	St. Jude Medical Coordination Center BVBA The Corporate Village Da Vincilaan 11 Box F1 1935 Zaventem, Belgium
Product Type:	Implantable Pacemakers
Product Name(s):	See Attachment
Model Number(s):	See Attachment
Classification:	AIMD
GMDN Code(s):	See Attachment
Original CE Mark Date:	See Attachment
(FQA or EC as appropriate) Certificate No and expiration date:	EC Certification No: I7 014607 0234 Rev. 00 Expiration Date: 2024-05-26
	FQA Certificate No: I1 16 12 14607 211 Expiration Date: 2021-07-25
	ISO13485 Certificate No: Q1N 17 09 14607 217

Signature:

Kathy Berg

Manager Regulatory Affairs

Expiration Date: 2020-10-31

Issue Date

86480 SJM Declaration of Conformity Template Rev D

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SJM Declaration of Conformity Implantable Pacemakers ATTACHMENT TO DECLARATION OF CONFORMITY

Applicable Quality System Standards:	Fulfills the requirements of Annex 2 of the European Union's Active Implantable Medical Devices Directive, AIMDD, 90/385/EEC and corresponding national legislation.
	Fulfills applicable requirements including CE marking and the Essential Requirements of the AIMDD, 90/385/EEC and corresponding national legislation.
Notified Body:	TÜV SÜD Product Service GmbH Zertifizierstelle Ridlerstraße 65, 80339, Münich, Germany
Notified Body Number:	0123
Manufacturing Facilities:	St. Jude Medical Cardiac Rhythm Management Division 15900 Valley View Court Sylmar, CA 91342 USA
	St. Jude Medical Puerto Rico LLC Lot A Interior - #2 Rd Km. 67.5, Santana Industrial Park, Arecibo PR 00612, USA
	St. Jude Medical Operations (M) Sdn. Bhd Plot 102, Lebuhraya Kampung Jawa, Bayan Lepas Industrial Zone, 11900 Penang, MALAYSIA

Signature:

Kathy Berg

Manager Regulatory Affairs

n2019

Issue Date

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SJM Declaration of Conformity Implantable Pacemakers ATTACHMENT TO DECLARATION OF CONFORMITY

The following product(s) is/are approved under EC-certificate number I7 014607 0230 Rev. 00:

Product Name	Model No.	GMDN Codes	First Date of CE Marking
Microny™ II SR+	2525T	47267	1999-9-17
Zephyr™ XL DR	5826	47265	2006-5-9
Zephyr™ DR	5820	47265	2006-5-9
Zephyr™ SR	5620	47267	2006-5-9
Zephyr™ XL SR	5626	47267	2007-6-13
Assurity™	PM1240	47267	2013-3-7
Assurity™ Endurity™	PM2240	47265	2013-3-7
Endurity™	PM1160 PM2160	47267	2013-3-7
Allure™	PM3120	47265	2013-3-7
Allure™ RF	PM3222	47263	2013-3-7
Allure Quadra™ RF	PM3242	47263	2013-3-7
Quadra Allure MP ™ RF	PM3262	47263	2013-3-7 2014-7-31
Assurity MRI ™	PM1272 (MR Conditional)	47267	2014-7-51
Assurity MRI TM	PM2272 (MR Conditional)	47265	2014-12-18
Endurity MRI TM	PM1172 (MR Conditional)	47267	2014-12-18
Endurity MRI TM	PM2172 (MR Conditional)	47265	2014-12-18
Endurity TM	PM1162 (MR Conditional)	47267	2014-12-18
Endurity TM	PM2162 (MR Conditional)	47265	2014-12-18
Endurity TM Core	PM1140 (MR Conditional)	47267	2015-7-24
Endurity TM Core	PM2140 (MR Conditional)	47265	2015-7-24
Endurity ™ Core	PM1152 (MR Conditional)	47267	2015-7-24
Endurity [™] Core	PM2152 (MR Conditional)	47265	2015-7-24
Quadra Allure ™	PM3542 (MR Conditional)	47263	2016-10-21
Quadra Allure MP M	PM3562 (MR Conditional)	47263	2016-10-21
Zenex ™	PM1250	47267	2018-10-12
Zenex ™	PM2250	47265	2018-10-12
Zenus ™	PM1170	47267	2018-10-12
Zenus ™	PM2170	47265	2018-10-12
Zenex MRI M	PM1282 (MR Conditional)	47267	2018-10-12

Signature:

Kathy Berg

Manager Regulatory Affairs

Issue Date

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SJM Declaration of Conformity implantable Pacemakers ATTACHMENT TO DECLARATION OF CONFORMITY

Product Name	Model No.	GMDN Codes	First Date of CE Marking
Zenex MRI ™	PM2282 (MR Conditional)	47265	2018-10-12
Zenus MRI ™	PM1182 (MR Conditional)	47267	2018-10-12
Zenus MRI TM	PM2182 (MR Conditional)	47265	2018-10-12

Signature:

Kathy Berg

Manager Regulatory Affairs

len 2019 Issue Date

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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.:

713237689

Valid from: Valid until: 2022-08-12 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 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 Trade of medical and laboratory equipment, disinfectants, laboratory reagents,

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,

service for medical and laboratory equipment.

Consulting for state and private medical units.

reagents, cardiovascular surgery devices,

disinfectants, laboratory

Scope

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

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

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