

## Endurity MRI™

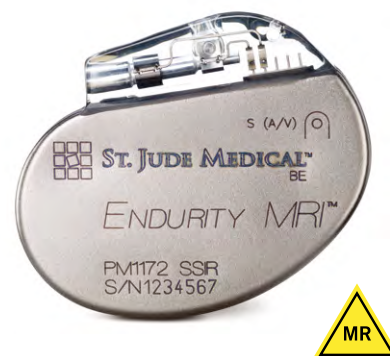
## Single-Chamber Pacemaker

## 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)
- In patients who have 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 14,4 years of service life,<sup>7</sup> which is supported by a 10-year warranty<sup>8</sup>
- 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—such as automaticity, Ventricular AutoCapture™ pacing system and SenseAbility™ technology—are designed to deliver optimal therapy for patients at implant and throughout their lives
- 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 |
|--------------|------------------------|----------------------------|------------|-------------|-----------|
| PM1172       | Endurity MRI Pacemaker | 41 x 50 x 6                | 19         | 9,7 (± 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. **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 sinus rhythm with only rare episodes of A-V block or sinus arrest, chronic atrial fibrillation, severe physical disability.

**Contraindications:** **Single-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. **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. For specific contraindications associated with individual modes, refer to the programmer's on-screen help.

**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 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™

## Single-Chamber Pacemaker

### Product Specifications - Pacemaker

#### PHYSICAL SPECIFICATIONS

|                 |               |
|-----------------|---------------|
| <b>Model</b>    | <b>PM1172</b> |
| Telemetry       | Inductive     |
| Dimensions (mm) | 41 x 50 x 6   |
| Weight (g)      | 19            |
| Volume (cc)     | 9.7           |
| Connector       | IS-1          |

#### Remote Monitoring

Compatible with Merlin@home™ Transmitter

#### PARAMETER SETTINGS

##### Rate/Timing

|  |  |
|--|--|
| Ventricular Pace/Sense Refractory (Fixed) (ms) | 125; 160-400 in steps of 30; 440; 470 <sup>2</sup>   |
| Base Rate (min <sup>-1</sup> )                 | 30-130 in steps of 5; 140-170 in steps of 10   |
| Mode   | VVO(R); VVI(R); VVT(R); Pacing Off<br>AOO(R); AAI(R); AAT(R)   |
| Hysteresis Rate (min <sup>-1</sup> )           | Off; 30 <sup>3</sup> -150 in steps of 5  |
| Search Interval (min <sup>-1</sup> )           | Off; 1; 5; 10; 15; 30  |
| Cycle Count                                    | 1-16 in steps of 1   |
| Intervention Rate (min <sup>-1</sup> )         | Off; 80-120 in steps of 10; Intrinsic +0; Intrinsic +10; Intrinsic +20; Intrinsic +30; Same as Base Rate |
| Intervention Duration (min)                    | 1-10 in 1 minute intervals   |
| Recovery Time                                  | Fast; Medium; Slow; Very Slow  |
| Rest Rate (min <sup>-1</sup> )                 | Off; 30-150; in steps of 5   |
| Rate Responsive VREF                           | Off; Low; Medium; High   |
| Shortest VREF                                  | 125-475 in steps of 25   |

##### Output/Sensing



|                             |  |
|-----------------------------|--|
| ACap™ Confirm <sup>3</sup>  | On; Off; Monitor   |
| Primary Pulse Configuration | Bipolar  |
| Backup Pulse Configuration  | Bipolar  |
| Backup Pulse Amplitude (V)  | 5.0 <sup>3</sup>   |
| Search Interval (hours)     | 8; 24  |
| A or V Pulse Amplitude (V)  | 0.25-4.0 in steps of 0.25; 4.5-7.5 in steps of 0.5   |
| A or V Pulse Width (ms)     | 0.05; 0.1-1.5 in steps of 0.1  |
| A or V Pulse Configuration  | Unipolar (tip-case); Bipolar (tip-ring)  |
| A or V Sense Configuration  | Unipolar Tip (tip-case); Bipolar (tip-ring);<br>Unipolar Ring (ring-case)  |
| Atrial Sensitivity (mV)     | 0.1-0.4 <sup>10</sup> in steps of 0.1; 0.5; 0.75-2.0 in steps of 0.25;<br>2.5-4.0 in steps of 0.5; 5.0 <sup>4</sup>  |
| V Sensitivity (mV)          | 0.5-5.0 in steps of 0.5; 6-10 in steps of 1.0; 12.5 <sup>4</sup>   |
| Ventricular AutoCapture™    |  |
| Pacing System               | On; Off  |
| Primary Pulse Configuration | Unipolar; Bipolar  |
| Backup Pulse Configuration  | Unipolar; Bipolar  |
| Backup Pulse Amplitude (V)  | 5.0 <sup>3</sup>   |
| Search Interval (hours)     | 8; 24  |
| SenseAbility™ Technology    | Off; On<br>(Automatic Sensitivity Control adjustment for atrial or ventricular events)   |
| A Max Sensitivity (mV)      | 0.2-1.0 in steps of 0.1  |
| V Max Sensitivity (mV)      | 0.2-2.0 in steps of 0.1  |
| Threshold Start             | (Atrial and Ventricular Post-Sense) 50; 62.5; 75; 100%<br>(Atrial Post-Pace) 0.2-3.0 in steps of 0.1 mV<br>(Ventricular Post-Pace) Auto; 0.2-3.0 in steps of 0.1 mV                              |
| Decay Delay (ms)            | (Atrial and Ventricular Post-Sense) 0; 30; 60; 95; 125; 160; 190; 220<br>(Atrial Post-Pace) 0; 30; 60; 95; 125; 160; 190; 220<br>(Ventricular Post-Pace) Auto; 0; 30; 60; 95; 125; 160; 190; 220 |

##### MRI Settings

|                                |                              |
|--------------------------------|------------------------------|
| MRI Mode                       | A00; V00; Pacing Off         |
| MRI Base Rate                  | 30-120 bpm in steps of 5 bpm |
| MRI Atrial Pulse Configuration | Bipolar                      |
| MRI Atrial Pulse Amplitude     | 5.0 V; 7.5 V                 |
| MRI Atrial Pulse Width         | 1.0 ms                       |
| MRI RV Pulse Configuration     | Bipolar                      |
| MRI RV Pulse Amplitude         | 5.0 V; 7.5 V                 |
| MRI RV Pulse Width             | 1.0 ms                       |

#### MRI Conditional Parameters

|                           |               |  |
|---------------------------|---------------|--|
| Lead                      | Lead Lengths  | Scan Exclusion Zone                                      |
| Tendril MRI LPA1200M Lead | 46, 52, 58 cm | No scan exclusion zone                                   |
| Tendril 2088TC Lead       | 46, 52, 58 cm | Isocenter must be inferior to L4 or 10 cm superior to C1 |
| IsoFlex 1944 Lead         | 46, 52 cm     | Isocenter must be inferior to L4 or superior to C1       |
| IsoFlex 1948 Lead         | 52, 58 cm     | Isocenter must be inferior to L4 or superior to C1       |

|                           |               |        |          |   |
|---------------------------|---------------|--------|----------|---|
| Lead                      | Lead Lengths  | Magnet | SAR      |  |
| Tendril MRI LPA1200M Lead | 46, 52, 58 cm | 1.5T   | ≤ 4 W/kg |   |
| Tendril 2088TC Lead       | 46, 52, 58 cm | 1.5T   | ≤ 2 W/kg |  |
| IsoFlex 1944 Lead         | 46, 52 cm     | 1.5T   | ≤ 2 W/kg |   |
| IsoFlex 1948 Lead         | 52, 58 cm     | 1.5T   | ≤ 2 W/kg |   |

#### AF Management<sup>9</sup>

|   |  |
|---|--|
| AF Suppression™ Algorithm                 | Off; On (Atrial implants only)                 |
| Lower Rate Overdrive (min <sup>-1</sup> ) | 10 <sup>3</sup>                                |
| Upper Rate Overdrive (min <sup>-1</sup> ) | 5 <sup>3</sup>                                 |
| No. of Overdrive Pacing Cycles            | 15-40 in steps of 5                            |
| Rate Recovery (ms)                        | 8; 12 <sup>3</sup>                             |
| Maximum AF                                |  |
| Suppression Rate (min <sup>-1</sup> )     | 80-150 in steps of 5; 160-180 in steps of 10   |
| Atrial Tachycardia                        |  |
| Detection Rate (min <sup>-1</sup> )       | 110-200 in steps of 10; 225-300 in steps of 25 |

#### Rate-Modulated Parameters

|  |  |
|--|--|
| Maximum Sensor Rate (min <sup>-1</sup> ) | 80-150 in steps of 5; 160-180 in steps of 10   |
| Reaction Time                            | Very Fast; Fast; Medium; Slow  |
| Recovery Time                            | Fast; Medium; Slow; Very Slow  |
| Sensor                                   | On; Off; Passive   |
| Slope                                    | Auto (-1); Auto (+0); Auto (+1); Auto (+2); Auto (+3); 1-16 in steps of 1                            |
| Threshold                                | Auto (-0.5); Auto (+0.0); Auto (+0.5); Auto (+1.0); Auto (+1.5);<br>Auto (+2.0); 1-7 in steps of 0.5 |

#### Stored Electrograms

|                           |                        |
|---------------------------|------------------------|
| Options                   |                        |
| Priority Options          | Off; Low; High         |
| Channel                   | 1; 2; 3                |
| Triggers                  |                        |
| Magnet Response           | Off; Low; High         |
| High Ventricular Rate     | Off; Low; High         |
| Rate (min <sup>-1</sup> ) | 125-300 in steps of 25 |
| No. of Consecutive Cycles | 2; 3; 4; 5; 10; 15; 20 |
| Advanced Hysteresis       | Off; Low; High         |
| Noise Reversion           | Off; Low; High         |

High Ventricular Rate can alternately be High Atrial Rate; they use the same sub-parameters.

#### Other

|   |   |
|---|---|
| Lead Monitoring                                   | Monitor; Auto Polarity Switch   |
| V Low Impedance Limit (Ω)                         | 100-500 in steps of 25  |
| V High Impedance Limit (Ω)                        | 750-2500 in steps of 250; 3000  |
| Atrial limits apply when implanted in the atrium. |   |
| Lead Type   | Uncoded; Unipolar; Bipolar  |
| Magnet Response                                   | Off; Battery Test   |
| NIPS Options                                      |   |
| Stimulation Chamber                               | Atrial or Ventricular   |
| Coupling Interval (ms)                            | 100-800 in steps of 10  |
| S1 Count  | 2-25 in steps of 1  |
| S1 <sup>2</sup> ; S2; S3 and S4 Cycle (ms)        | Off; 100-800 in steps of 10 (Fixed or Adaptive)                             |
| Diagnostic Trends                                 | AT/AF Activity; Exercise; Lead Impedance; R (or P) Wave; V (or A) Threshold |

- ± 0.5 cc
- Programming options dependent on pacing mode.
- The highest available setting for hysteresis rate will be 5 min<sup>-1</sup> below the programmed base rate.
- Sensitivity is with respect to a 20 ms haversine test signal.
- This parameter is not programmable.
- S1 Burst Cycle is applied at the preprogrammed S1 cycle length.
- A.V = 2.5 V @ 0.4 ms; 500 ohms; 100% VVI pacing @ 60 bpm; AutoCapture™ Pacing System OFF; SEGMS ON
- Terms and conditions apply; refer to the warranty for details
- Atrial Implants Only
- Values 0.1-0.4 not available in a unipolar sense configuration.

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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## 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

## PHYSICAL SPECIFICATIONS

|   |   |
|---|---|
| <b>Model</b>                                    | <b>2088TC</b>   |
| 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™ 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          |
|                                  | DS06003 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 and manipulation with one hand |
|                                  | 1292 with appropriate length designation    | 46; 52; 58; 65 cm      |   |

## 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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Product Service

# 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**

## Manufacturer:

**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:**

2019-06-15

**Valid until:**

2024-05-26

**Date,**

2019-06-14

Stefan Preiß



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Product Service

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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**

**Model(s):** see below

**Facility(ies):** 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

**Parameters** ./.

**Design Facility(ies):** St. Jude Medical Cardiac Rhythm Management Division  
15900 Valley View Court, Sylmar, CA 91342, USA

**Product:** Implantable Pacemakers

Test Report No.: 70069297

**Model:** **Model No.:** **Variant:**

Microny™ II SR+ 2525T

Test Report No.: 70110810

**Model:** **Model No.:** **Variant:**

Zephyr™ SR 5620  
Zephyr™ DR 5820  
Zephyr™ XL DR 5826





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Product Service

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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:**

Zephyr™ XL SR

**Model No.:**

5626

**Variant:**

Test Report No.: 713017309\_1

**Model:**

Assurity™

Assurity™

Endurity™

Endurity™

Allure™

Allure™ RF

Allure Quadra™ RF

**Model No.:**

PM1240

PM2240

PM1160

PM2160

PM3120

PM3222

PM3242

**Variant:**

Test Report No.: 713028360

**Model:**

Quadra Allure MP™RF

**Model No.:**

PM3262

**Variant**

Test Report No.: 713043621

**Model:**

Assurity MRI™

Assurity MRI™

Endurity MRI™

Endurity MRI™

Endurity™

Endurity™

**Model No.:**

PM1272

PM2272

PM1172

PM2172

PM1162

PM2162

**Variant:**

MR Conditional

MR Conditional

MR Conditional

MR Conditional

MR Conditional

MR Conditional



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Product Service

## 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

**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  
Expiration Date: 2020-10-31*

**Signature:**

*Kathy Berg*  
Kathy Berg  
Manager Regulatory Affairs

*14 Jun 2019*  
Issue Date



**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, München, Germany

**Notified Body Number:**

0123

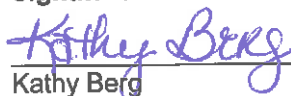
**Manufacturing Facilities:**

*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



Issue Date



**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™            | PM2240                  | 47265      | 2013-3-7                 |
| Endurity™            | PM1160                  | 47267      | 2013-3-7                 |
| Endurity™            | PM2160                  | 47265      | 2013-3-7                 |
| Allure™              | PM3120                  | 47263      | 2013-3-7                 |
| Allure™ RF           | PM3222                  | 47263      | 2013-3-7                 |
| Allure Quadra™ RF    | PM3242                  | 47263      | 2013-3-7                 |
| Quadra Allure MP™ RF | PM3262                  | 47263      | 2014-7-31                |
| Assurity MRI™        | PM1272 (MR Conditional) | 47267      | 2014-12-18               |
| Assurity MRI™        | PM2272 (MR Conditional) | 47265      | 2014-12-18               |
| Endurity MRI™        | PM1172 (MR Conditional) | 47267      | 2014-12-18               |
| Endurity MRI™        | PM2172 (MR Conditional) | 47265      | 2014-12-18               |
| Endurity™            | PM1162 (MR Conditional) | 47267      | 2014-12-18               |
| Endurity™            | PM2162 (MR Conditional) | 47265      | 2014-12-18               |
| Endurity™ Core       | PM1140 (MR Conditional) | 47267      | 2015-7-24                |
| Endurity™ 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™    | 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™           | PM1282 (MR Conditional) | 47267      | 2018-10-12               |

Signature:

  
 Kathy Berg  
 Manager Regulatory Affairs

  
 Issue Date



**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™   | PM2182 (MR Conditional) | 47265      | 2018-10-12               |

**Signature:**



Kathy Berg  
Manager Regulatory Affairs



Issue Date



# 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](http://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.

**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

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany  
Administrative Office: DQS Romania, Str. Bratului nr. 11, 020565 Bucharest - Romania



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

**SANTE INTERNATIONAL S.A.**

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

**Location**

**Scope**

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

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

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

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.

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

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

**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.