

REVEAL LINQ™ PRODUCT SPECIFICATIONS

Vaikiškas implantuojamas įvykių
registratorius ("Loop recorder")



Reveal LINQ™
Insertable Cardiac Monitoring System

Device Characteristics

Size and Mass

Volume	1.2 cm ³	korpuso tūris - 1,2 cm ³ ; Prietaiso svoris 2,5 g;
Dimensions	44.8 mm x 7.2 mm x 4.0 mm	
Mass	2.5 g ± 0.5	
Distance between electrodes	37.7 mm	

Compatibility and identification

MRI Compatibility	MR Conditional ^a
Radiopaque ID	"M" shape identifier on the header

^a The Reveal LINQ™ insertable cardiac monitor (ICM) has been demonstrated to pose no known hazards in a specified MR environment with the conditions of use specified in the Reveal LINQ™ ICM Clinical Manual. Please see the Reveal LINQ™ ICM Clinical Manual for additional details.

Battery

Chemistry	Lithium carbon monofluoride	
Projected Longevity ^a	3 Years	Prietaiso tarnavimo trukmė 36 mėnesiai

^a Under the following usage scenarios:

- Average of 1 auto-detected episode per day
- Average of 1 patient-activated episode per month
- Less than or equal to 6 months shelf life (between device manufacture and insertion).

Note: Under maximum shelf storage time (12 months), longevity is reduced by approximately 3 months.

Sensing

Sampling Rate	256 Hz
Sampling Resolution	16 bits/sample
Bandwidth	0.5 - 95 Hz

Programmable Parameters

R-wave sensing

Parameter	Programmable values
Sensitivity	0.025; 0.035 ♦; 0.05; 0.075; 0.1 ... 0.2 mV ± 20% of the programmed value + 0.005 mV
Sensing Threshold Decay Delay	130; 150 ♦; 200; 300; 400; 500 ms (±10 ms)
Blank after Sense	130; 150 ♦; 170; 200; 250; 300; 400 ms (±10 ms)

Pause detection

Parameter	Programmable values
Pause (Asystole) Detection	On ♦; Off
Pause (Asystole) Duration	1.5; 3.0 ♦; 4.5 s (± 10 ms)

AT/AF detection

Parameter	Programmable values
AT/AF Detection	On - AT/AF; On - AF only ♦; Off
AF Detection Sensitivity ^a	Least Sensitive; Less Sensitive; Balanced Sensitivity; More Sensitive
Ectopy Rejection ^a	Off; Nominal; Aggressive
AT/AF Recording Threshold ^a	Allepisodes; ≥ 6 min; ≥ 10 min; ≥ 20 min; ≥ 30 min; ≥ 60 min; Only longest episode
Detect Very Regular AT Rhythms	Off ♦; On - Rates ≥ 67 bpm; On - Rates ≥ 100 bpm; On - All Rates

Prieširdžių virpėjimo/prieširdinių tachiaritmijų
automatinio atpažinimo ir kiekybinio įvertinimo galimybė

Brady detection

Parameter	Programmable values
Brady Detection	On; Off
Brady Interval (Rate)	1,000; 1,200; 1,500; 2,000 ♦ ms (± 10 ms) 60; 50; 40; 30 ♦ bpm
Brady Duration	4 ♦; 8; 12 beats

Automatinė EKG įrašo aktyvacija, esant bradikardijai
(programuojamas širdies susitraukimų dažnis)

Tachy detection

Parameter	Programmable values
Tachy Detection ^a	On; Off
Tachy Detection Interval (Rate)	270; 280 ... 340 ♦ ... 520 ms (± 10 ms) 222; 214; 176 ♦ ... 115 bpm
Tachy Duration	5; 12; 16 ♦; 24; 32; 48 beats

Automatinė EKG įrašo aktyvacija, esant tachikardijai
(programuojamas širdies susitraukimų dažnis)

Symptomatic Episode Duration

Parameter	Programmable values
Symptomatic Episode Duration	Four 7.5 min episodes ♦; three 10 min episodes; two 15 min episodes

Device data collection

Parameter	Programmable values
Reason for Monitoring ^a	Syncope; Palpitations; Seizures; Ventricular Tachycardia; Suspected AF; AF Ablation; AF Management; Stroke; Other
Device Date/Time ... ^c	Enter current date and time
Wireless Transmission Time ... ^d	00:00 ♦; 01:00; 02:00 ... 11:00; 12:00; 13:00 ... 23:00
Wireless Data Priority	Brady; Tachy; Pause; Brady Pause; Tachy; Tachy; Brady Pause; Tachy; Pause; Brady; Pause; Tachy; Brady; Pause Brady; Tachy
Device Data Collection ^e	On

^a Reason for Monitoring is used to set arrhythmia detection parameters to pending automatically.

^b Tachy Detection based on 230 – Date of Birth.

^c The times and dates stored in episode records and other data are determined by the Device Date/Time clock.

^d Wireless Transmission Time programming is based on the Device Date/Time clock.

^e Turning on Device Data Collection enables sensing and data collection (all episode types). After being turned on, Device Data Collection cannot be turned off.

Medtronic

Patient Assistant Model PA96000

1. Record Symptom Button

Pressed by patient to record ECG when symptomatic

2. Searching Light

Flashes blue indicating the patient should hold the Patient Assistant over the Reveal LINQ™ ICM

3. Success Light

Illuminates green when the symptom is successfully marked

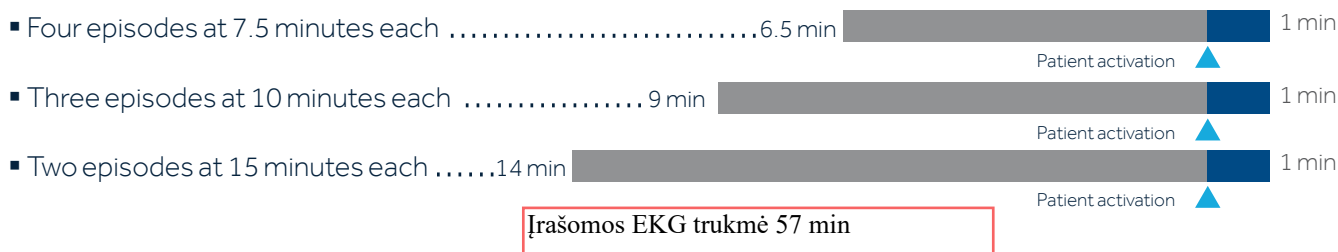
4. Connection Slot

Allows patient to attach the Patient Assistant to a key chain, lanyard, or other personal item



Reveal LINQ™ ECG Data Storage

Up to 30 minutes of patient-activated episodes

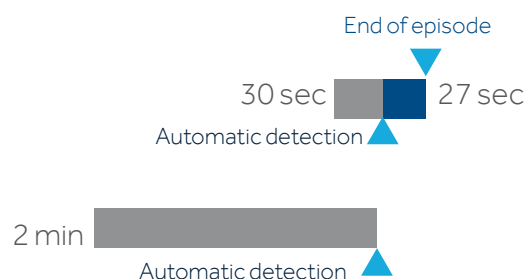


27 minutes of automatically detected episodes

Episode types: Pause, Brady, Tachy

Atrial episodes: AT/AF

Two minutes (included in the 27 minutes of automatically detected episodes) of ECG data recorded before detection



Two minutes of longest AF episode stored since last interrogation in addition to the 27 minutes of automatically detected episodes

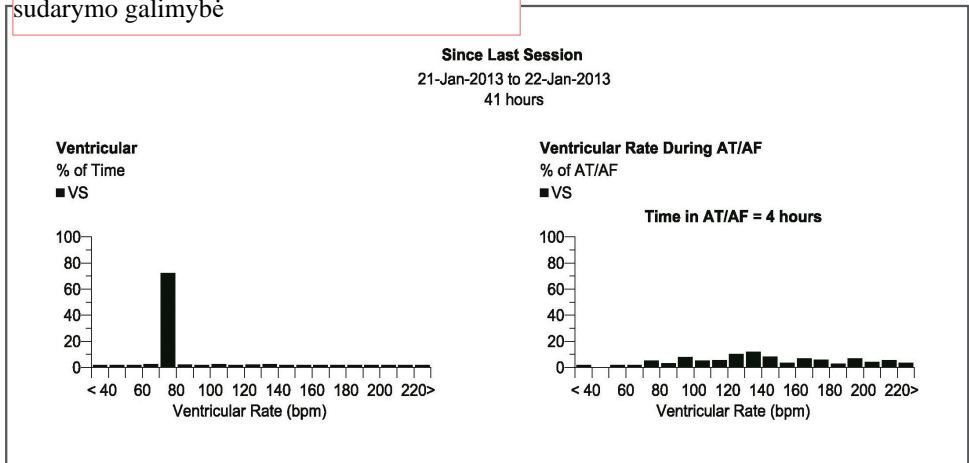
Rate Histogram

The Rate Histogram report is based on a continuous recording of ventricular rates since the last patient session. The Rate Histogram report presents heart rate data in 2 types of histograms:

- Ventricular rate
- Ventricular rate during AT/AF

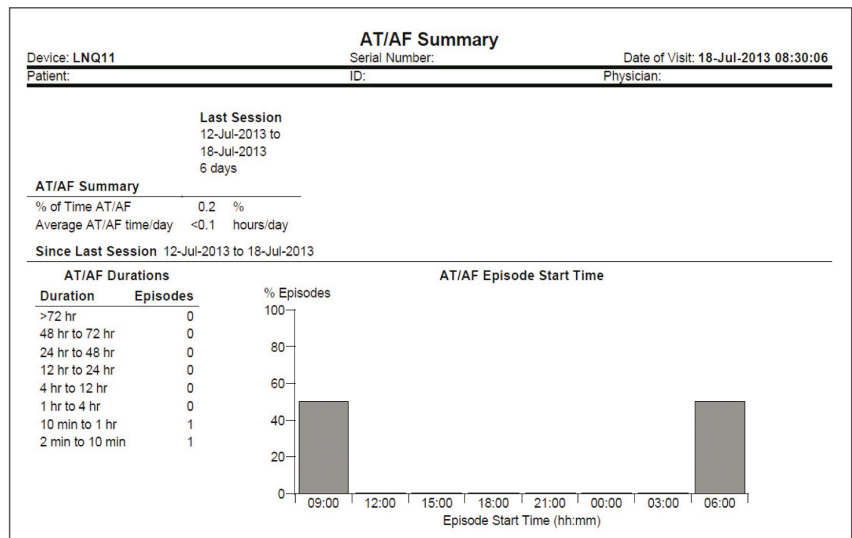
The report includes data from the current (since last session) collection period.

Širdies susitraukimų dažnio histogramos sudarymo galimybė



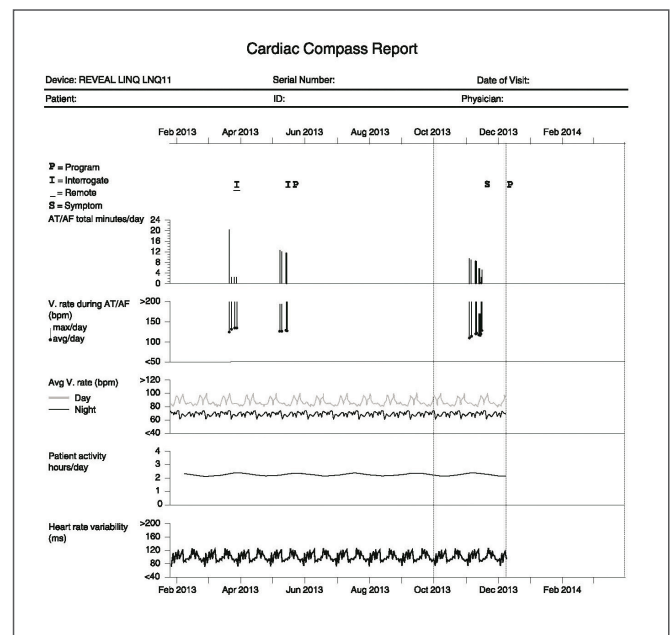
AT/AF Summary

AT/AF Summary report provides an overview of all atrial arrhythmias detected, including percentage of time in AT/AF, average time in AT/AF per day, and number of episodes at a given duration.



Cardiac Compass™ Trends

Cardiac Compass report provides trending data, which includes daily AT/AF burden, V. rate during AT/AF, average day and night V. rate, daily activity, and heart rate variability.



All patient and clinical data are fictitious and for demonstration purposes only.

Brief Statement

See the device manual for detailed information regarding instructions for use, the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at medtronic.com.



www.medtronic.com/manuals

Consult instructions for use at this website. Manuals can be viewed using a current version of any major Internet browser. For best results, use Adobe Acrobat® Reader with the browser.

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