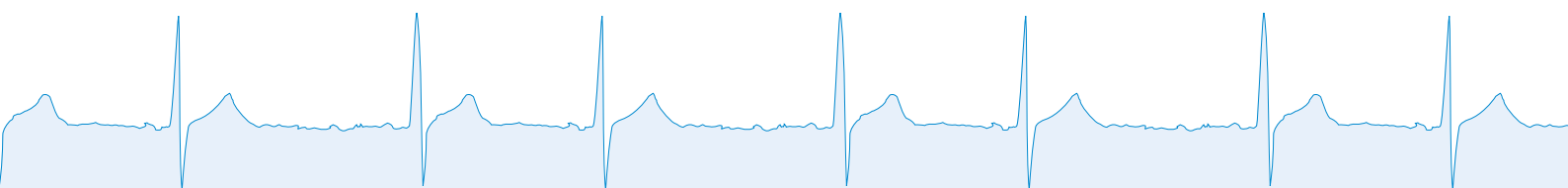


# Lifetron<sup>®</sup>

B i o t e c n o l o g i a



Pinnacle SSIR+ 297



**ANVISA**

Agência Nacional de Vigilância Sanitária

Anvisa 80567780001



INMETRO





## Pinnacle SSIR+ 297



### Specifications : Programmable Parameter Values

Pacing Modes	VVI, VVT, VOO, OVO, AAI, AAT, AOO, OAO, VVIR, VVTR, VOOR, AAIR, AATR, AORR
Basic Pacing Rates	From 32 to 120 ppm in steps of 2 ppm
Pulse Widths	21 values from 0.07 mS to 1.50 mS in steps of 0.03 mS
Pulse Amplitudes	36 values from 0.2 to 7.5 V
Refractory Periods	From 200 to 300 mS in steps of 15.625 mS
Sensitivities	From 0.4 to 6.4 mV in steps of 0.4 mV
Hysteresis	2 ppm to 40 ppm in steps of 2 ppm
Pacing Polarities	Unipolar / Bipolar
Sensing Polarities	Unipolar / Bipolar
Upper rate in trigger mode	From 80 to 180 ppm in steps of 2 ppm

### Rate Response

Upper Rate	From 80 to 180 ppm in steps of 2 ppm
Response to Activity	From 1 to 16
Reaction Times (up time)	From 10 to 60 s, in steps of 10 s, to increment the rate 80 ppm
Recovery Times (down time)	From 1 to 10 m, in steps of 1 m, to decrement the rate 80 ppm
Automatic Refractory Change	When programmed, if the rate is greater than 120 ppm, the refractory period switches to 250 ms.
Automeasure Mode	Automatic Threshold Measurement

### Tachycardia Treatment

Temporary programming	Asynchronous pacing with rates from 32 to 380 ppm
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### Magnetic Response

Mode	V00
Rate	BOL (begin of life): 95 ppm ERI (elective replacement): 85 ppm

### End of Service Indicators

ERI (Elective replacement): When the remaining capacity of the battery is between 4% and 8%, the pacing rate switches to 85 ppm when a magnet is applied.

EOL (End of Life): When the remaining capacity of the battery is under 4% of the initial capacity, the pacing rate slows 10 ppm.

### Power Source

Battery Chemistry: Lithium Iodine WG 8711  
Initial Voltage: 2.8 V.  
Maximum Available Capacity: 0.82 A-hr.

### Physical Characteristics

Dimensions: 49 x 38 x 7 mm  
Mass: 24 g.  
Case Material: Titanium  
Connectors: 3.2mm, IS-1/VS-1

### Service Life

The expected life of the generator, pacing 100% at 70 ppm, with 2.5 V amplitude and pulse width of 0.488 ms, is 7 years.

### Telemetry Data

Parameters: All the programmable parameters.  
Identification: Model and serial number  
Battery condition: Voltage, ERI and EOL indicators  
Statistics: Keeps track of pacing and sensing events, as well as ventricular premature events. Frequency Histogram.  
Lead Impedance  
Marker Pulses.  
Threshold Test  
Rate Responsive Wizard

### Protections

Noise detection: When the pacemaker senses events with frequency exceeding 11 Hz, it switches to V00 mode.

Run Away Limit: The pacemaker includes an antirunaway circuit to avoid the generation of stimuli with a rate over 200 ppm (except in temporary programming).

### Programming

The pacemaker is programmed using a microcomputer (usually a Notebook) that runs Windows operating system. It also permits the measurement of the stimulation and sensing thresholds as well as the generation of printed reports.

These are preliminary specifications and are subject to change in the process of development.



Rua Alameda Wyda, 275 - 2º andar | Jardim Éden | Sorocaba – SP  
+55 15 3342-8746 | + 55 15 3342-8747 | sac@lifetron.com.br