

The BAROSTIM NEO System™ Product Specifications

System Components

The BAROSTIM NEO System includes the following components:

CAROTID SINUS LEAD

One thin lead wire implanted on the carotid artery and connected to the device. Conducts activation energy from the IPG to the baroreceptors, on the carotid artery.



IMPLANTABLE PULSE GENERATOR (IPG)

Implanted under the skin below the collar bone. Provides control and delivery of activation energy from the IPG to the baroreceptors, on the carotid artery.



PROGRAMMER SYSTEM

An external system used to adjust and customize therapy settings via wireless communication.



Longevity

	Example 1	Example 2	Example 3
PROGRAMMING SETTINGS Amplitude (mA) - Width (μs) - Frequency (pps)	6 - 65 - 40	6 - 125 - 40	8 - 250 - 20
LONGEVITY (months)	84 months	58 months	42 months
LONGEVITY (years)	~7 years	~5 years	~3.5 years

Radiopaque ID

A unique IPG identifier that is visible during X-ray, in order to determine IPG placement. An example is featured below.

CVRxA511



BAROSTIM
THERAPY™
BAROSTIMNEO™

General Specifications

IPG (MODEL 2102)

SPECIFICATION	VALUE
Connectors	No sensing Unipolar stimulation 1.5 mm lead pin bore diameter 3.48 mm lead shaft bore diameter
Mass	60 grams
Height	72 mm
Width	50 mm
Thickness	14 mm
Volume	< 40 CC
Materials	Titanium can Tecothane header Silicone seals Stainless steel setscrews
Leads	Use only CVRx lead models 103x
Materials in Accessory Kit	Port plug is comprised of a stainless steel shaft and silicone body
Battery	1 carbon monofluoride and silver vanadium oxide cell 7.50 Ah theoretical capacity

LEAD (MODELS 1036 AND 1037)

SPECIFICATION	VALUE (NOMINAL)
Length	Model 1036: 40 cm Model 1037: 50 cm
Compatibility	Compatible with BAROSTIM NEO™
Connector:	
Connector Type	Compatible with BAROSTIM NEO IPG
Pin	Active diameter = 1.41 mm Active length = 5.18 mm
Ring	Inactive diameter = 2.67 mm Active length = 4.06 mm
Connector (Pin to Ring)	14.22 mm (including inactive ring length)
Length:	
Pin/Ring Material	Stainless steel
Seal/Insulating Material	Silicone rubber
Lead Body:	
Conductor Material	Cobalt-nickel-chromium-molybdenum alloy with silver core
Lead Body Insulation Material	Silicone rubber
Electrodes:	
Electrode Material	Platinum iridium with iridium oxide coating
Electrode Backer Material	Silicone rubber

IPG PARAMETERS

PARAMETER	UNITS	PROGRAMMABLE VALUES
Therapy Schedule From/To Times for therapy (N) or Therapy Off	HH:MM	Up to 3 entries allowed Any time during the day in 15 minute steps
Output Pathway for Therapy (N)	NA	LEFT and RIGHT are independently selected
LEFT Pulse Amplitude for Therapy (N)	milliamp	0.8 to 20.0
RIGHT Pulse Amplitude for Therapy (N)	milliamp	0.8 to 20.0
LEFT Pulse Width for Therapy (N)	µs	15 to 500
RIGHT Pulse Width for Therapy (N)	µs	15 to 500
Therapy Frequency for Therapy	PPS	10 to 100

MAGNET MODE OPERATION

- BAROSTIM THERAPY will be switched off while a standard magnet is present over the IPG.

RECOMMENDED REPLACEMENT TIME (RRT)

- Expected RRT date, and time remaining until RRT date, display on the programmer.
- Yellow RRT alert displays on the programmer when RRT date has passed.

END OF SERVICE (EOS)

- Battery voltage remains below 2.3V for one day.
- Red EOS alert displays on the programmer when EOS has occurred.



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