

Date: 9/12/2013

Re: Model 6299 Latitude™ Rock Springs Point of Care (Consult)

Communicator: FCC Cover Letter

The Guidant Corporation (a wholly owned subsidiary of Boston Scientific Corporation doing business as Boston Scientific Cardiac Rhythm Management, hereinafter referred to as BSC Model 6299 LATITUDE™ Rock Springs Point of Care (a.k.a., Consult) is an in-clinic or hospital monitor for use with inductive telemetry enabled BSC implantable pulse generators in the Cognis, Teligen, Progeny, Ingenio, Insignia, and Altrua devices included under FCC ID ESCCRMN11906 and ESCCRMV17311.

Introduction

The Model 6299 is a new product for the Guidant Corporation. This is a new device in a family of Boston Scientific products used to interrogate BSC implantable devices. The Model 6299 is similar to a series of LATITUDE™ home-based products used to monitor patients in the home either via an inductive link or wireless telemetry. This device differs in that it is intended for use by medical professionals in clinics or hospitals. Since this is a new product, this will be an original certification.

The FCC ID chosen for this product is based on previously approved similar products and is ESCCRM629913. The FCC rules applicable to the inductive link portion of this product include CFR FCC Part 15.205, Part 15.207, and Part 15.209. Even though the Bluetooth radio is not enabled in this product, the module is approved as FCC ID POOWML-C40. Lastly, since the product also includes an analog modem connection, FCC Part 68 also applies.

Device Description

The Model 6299 has dedicated transmit and receive coils connected to a discrete transceiver subsystem. The inductive transceiver is controlled by the telemetry hardware logic on the wand board and the microprocessor on the Communicator's main circuit board. The Model 6299 firmware controls the On-Off-Keyed (OOK) intentional

emissions transmit power and rate of occurrence per the BSC proprietary telemetry protocol.

The system receiver is capable of supporting high speed and legacy inductive pulse generators employing quadrature phase shift keying (QPSK) and OOK modulation. The Model 6299 auto-detects which protocol (i.e., transmit and receive data rates) to use during the initial interchange with the pulse generator being interrogated.

A custom BSC software application is run on the device embedded microprocessor that controls all of the device features and functions. The transceiver operation is controlled via this processor. Additional timing controls for the transceiver functions on the wand board are controlled by a Complex Programmable Logic Device (CPLD). The CPLD firmware is loaded during the manufacturing process.

Figure 1 shows the Model 6299. The design consists of an Integrated Main Circuit Board (IMCB), Button Board (BB), Wand Control Board (WCB), and wand cable. Internal to the Model 6299 there is also a liquid crystal display (LCD) with touch screen, plastic internal frame and miscellaneous cables. The device is wall-powered using an AC/DC power brick.

Figure 1. BSC Model 6299

