A Closer Look

Boston Scientific

SUMMARY

Boston Scientific's LATITUDE® NXT Patient Management System enables a clinician to periodically monitor patient and device information remotely via a LATITUDE NXT Wave™ Communicator in the patient's home. The clinician can review this information on the LATITUDE NXT website to supplement in-clinic visits.

This article describes how to properly configure the Communicator to match the patient's phone dialing protocol and country location. It also describes the proper configuration for use with other connection methods.

Products Referenced

LATITUDE NXT Patient Management System
LATITUDE NXT Wave Communicator
Models 6498, 6280, 6288, 6290

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Products referenced herein may not be approved in all geographies. Information is for the use in countries with applicable Health Authority product registrations.

For comprehensive information on device operation, reference the full instructions for use found at: **www.bostonscientific-elabeling.com**.

CAUTION: Federal (U.S.) law restricts this device to sale by or on the order of a physician.

All graphics produced by Boston Scientific Corporation, unless otherwise noted.

CRT-D: Cardiac Resynchronization Therapy Defibrillator
CRT-P: Cardiac Resynchronization Therapy Pacemaker
ICD: Implantable Cardioverter Defibrillator
S-ICD: Subcutaneous Implantable Defibrillator

Contact Information

www.bostonscientific.com

Americas
Technical Services
LATITUDE™ Customer Support
1.800.CARDIAC (227.3422)
+1.651.582.4000

Patient Services
1.866.484.3268

Europe, Middle East, Africa
Technical Services
+32 2 416 7222
intltechservice@bsci.com

LATITUDE Customer Support
latitude.europe@bsci.com

Japan
Technical Services
japantechservice@bsci.com

LATITUDE Customer Support
japan.latitude@bsci.com

Asia Pacific
Technical Services
+61 2 8063 8299
aptechservice@bsci.com

LATITUDE Customer Support
latitudeasiapacific@bsci.com

How to Set Configuration Switches for LATITUDE® NXT Wave™ Communicators

A LATITUDE NXT Wave™ Communicator is an in-home monitor that uses wireless technology to transfer data from a patient's implanted device to a secure internet website*. Data travels to the website through one of three connection methods: cellular, internet or standard telephone line.

Configuring LATITUDE NXT Wave Communicators

If applicable (i.e., connecting over a phone line) Wave™ Wireless Communicators (Models 6498, 6280, 6288, and 6290) must be configured to match the dialing protocol of the patient's phone line and country location. The Communicator may be configured to meet local conditions by adjusting eight (8) small slide switches located on the bottom of the Communicator (Figure 1).
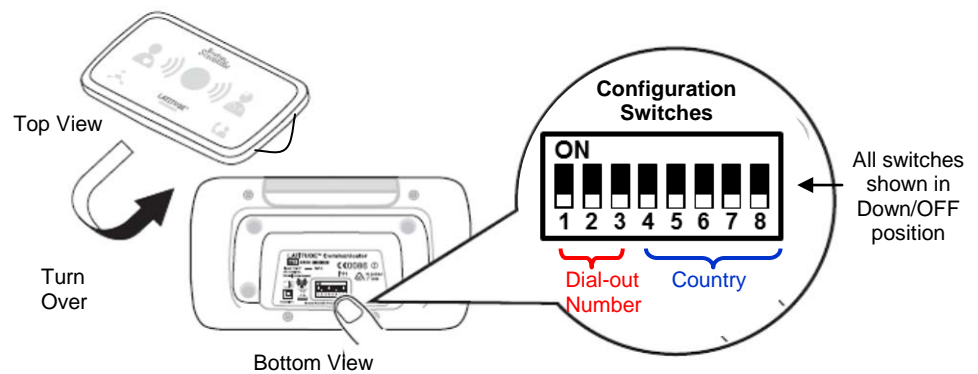

Figure 1. Configuration switches on bottom of NXT Wave Communicator.

Switches 1 through 3 (Figure 1) are used to configure the dial-out number. Switches 4 through 8 (Figure 1) are used to configure the country location. These small switches can be toggled manually by sliding the switch to an ON (Up) position or OFF (Down) position. **Tip!:** A pen can be used to slide the switches up or down.

LATITUDE NXT Wave Communicator switches are preset to match the dial-out number and the country most often used for that particular geography.

- The preset switch positions may match the dial-out number and country for the patient's home location. If this is the case, the Communicator can be used immediately without altering the position of the configuration switches.

- If extra dialing is required to obtain an outside phone line, or if the preset country switch positions do not match the patient's home country, the Communicator switches may be adjusted using the procedure described below.

Please Note: Boston Scientific Wave™ Communicators are supported by the LATITUDE® NXT system. Not all models are approved and/or market-released in all geographies.

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*The LATITUDE NXT system is not intended to assist with medical emergencies. Patients who are not feeling well should call their physician or emergency services number as they deem necessary.

Setting the Switch Configuration

Switches 1 through 3 are used to configure the dial-out number. These switches are only used when the connection is made via a landline or a digital phone line (i.e., cellular or internet). Switches 4 through 8 are used to configure the country location. These switches are used for all connection types. For countries with no landline connections available (i.e., Saudi Arabia), all 8 switches must be set correctly. This is discussed in the section on exceptions.

STEP 1. Set switches 1-3 (dial-out number) if connecting over a telephone line (analog or digital).
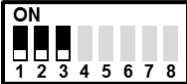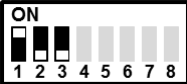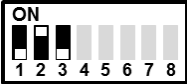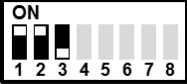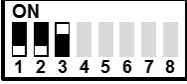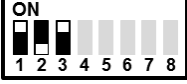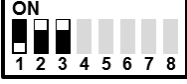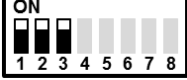
Using a Phone Line
For some landlines, a special "dial-out" number may be needed in order to obtain a dial tone to call out. For example, many businesses (hotels, medical/managed care facilities, etc.), require a "prefix" to route your call to an outside line. If this is the case, switches 1 through 3 on the bottom of the Communicator must be set to match the dial-out number. For example, if your building dial-out number is "9", you must set the first three switches as follows: Switch 1 = ON (Up). Switch 2 = OFF (Down), Switch 3 = ON (Up). Switch settings for various dial-out options are shown in **Table 1**. **Please note, most homes require no special dial-out number. In this case, switches 1 through 3 should remain in the OFF (Down) position.**

Using Cellular or Internet Connection Methods
Connections over a cellular data network or an internet adapter do not require a dial-out number. **Switches 1 through 3 should remain in the OFF (Down) position.**

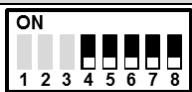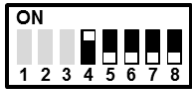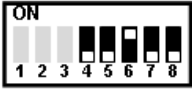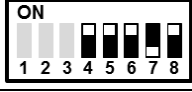**Table 1. Position of Switches 1 through 3 to Accommodate Dial-out Numbers**
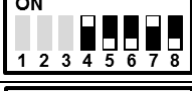
Dial-Out Number	Switch 1	Switch 2	Switch 3	Summary
None	Down/OFF	Down/OFF	Down/OFF	
0	Up/ON	Down/OFF	Down/OFF	
1	Down/OFF	Up/ON	Down/OFF	
7	Up/ON	Up/ON	Down/OFF	
8	Down/OFF	Down/OFF	Up/ON	
9	Up/ON	Down/OFF	Up/ON	
*99	Down/OFF	Up/ON	Up/ON	
Pulse Dialing (Japan Only)	Up/ON	Up/ON	Up/ON	
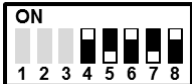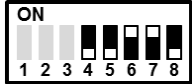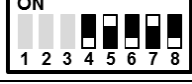
STEP 2. Set the country location (switches 4 through 8) for all connection methods.

Switches 4 through 8 on the bottom of the Communicator must be set to your home country (Table 2).
If you will be traveling with your Communicator, please refer to the section below.

Table 2. Position of Switches 4 through 8 for Use in Different Countries

Country	Switch 4	Switch 5	Switch 6	Switch 7	Switch 8	Summary
USA	Down/OFF	Down/OFF	Down/OFF	Down/OFF	Down/OFF	
Australia	Up/ON	Down/OFF	Down/OFF	Down/OFF	Down/OFF	
Austria	Down/OFF	Down/OFF	Up/ON	Down/OFF	Down/OFF	
Belgium	Up/ON	Up/ON	Up/ON	Down/OFF	Up/ON	
Canada	Up/ON	Up/ON	Down/OFF	Down/OFF	Down/OFF	
Czech Republic	Up/ON	Down/OFF	Down/OFF	Up/ON	Down/OFF	
Denmark	Down/OFF	Up/ON	Up/ON	Down/OFF	Down/OFF	
Finland	Up/ON	Up/ON	Up/ON	Down/OFF	Down/OFF	
France	Down/OFF	Down/OFF	Down/OFF	Up/ON	Down/OFF	
Germany	Up/ON	Up/ON	Up/ON	Up/ON	Up/ON	
Greece	Up/ON	Up/ON	Down/OFF	Up/ON	Down/OFF	
Hong Kong	Down/OFF	Up/ON	Down/OFF	Down/OFF	Up/ON	
Hungary	Up/ON	Down/OFF	Down/OFF	Up/ON	Up/ON	
Ireland	Down/OFF	Down/OFF	Down/OFF	Up/ON	Up/ON	
Israel	Up/ON	Down/OFF	Up/ON	Up/ON	Down/OFF	
Italy	Up/ON	Up/ON	Down/OFF	Up/ON	Up/ON	
Japan	Up/ON	Up/ON	Down/OFF	Down/OFF	Up/ON	

Country	Switch 4	Switch 5	Switch 6	Switch 7	Switch 8	Summary
Mexico	Up/ON	Down/OFF	Up/ON	Down/OFF	Up/ON	
Netherlands	Down/OFF	Down/OFF	Up/ON	Up/ON	Down/OFF	
New Zealand	Down/OFF	Up/ON	Down/OFF	Down/OFF	Down/OFF	
Norway	Down/OFF	Up/ON	Up/ON	Up/ON	Up/ON	
Poland	Down/OFF	Up/ON	Down/OFF	Up/ON	Down/OFF	
Portugal	Down/OFF	Up/ON	Up/ON	Up/ON	Down/OFF	
Slovakia	Up/ON	Down/OFF	Up/ON	Down/OFF	Down/OFF	
Spain	Up/ON	Up/ON	Up/ON	Up/ON	Down/OFF	
Sweden	Down/OFF	Down/OFF	Down/OFF	Down/OFF	Up/ON	
Switzerland	Up/ON	Down/OFF	Down/OFF	Down/OFF	Up/ON	
United Kingdom	Down/OFF	Down/OFF	Up/ON	Up/ON	Up/ON	

Exception: Geographies with No Phone Line Support (currently Saudi Arabia)

For some geographies, connections over a phone line (landline) are not supported. In this scenario, all eight switches must be set correctly for connections over an internet connection to be successful. Switches 1 through 8 must be set to the home country (Table 3). If you will be traveling with your Communicator, please refer to the Section "Traveling with the Communicator."

Switch Settings for Countries with no landline option

Table 3 indicates correct switch settings for using the Communicator in your home. If you will be traveling with your Communicator, please refer to the section "Traveling with the Communicator".

Table 3. Position of Switches 1 through 8 for Exception Countries

Country	Switch 1-2	Switch 3	Switch 4	Switch 5	Switch 6-8	Summary
Saudi Arabia	Up/On	Up/On	Up/On	Down/OFF	Up/On	

Traveling with the Communicator

Depending on the Communicator model number and method of connection, the LATITUDE Communicator may or may not be able to be used in other countries.

- **Model 6280**, **6288**, and **6498** Communicators use either the ISM (US, Australia and Canada) or the SRD (Europe and Saudi Arabia) frequency band to communicate with the pulse generator. Use of these Communicators outside of the patient's home country may be restricted by local regulations.
- **Model 6290** Communicators use the MICS frequency band to communicate with the pulse generator. This allows traveling patients to use the Model 6290 in any region that permits the MICS band (including US, Europe, Japan, Australia and Canada).
  - **Exception:** US patients with an S-ICD supported on LATITUDE may be restricted from using their Communicator in other countries due to radio-frequency (RF) laws.
- **If using a landline connection while traveling** outside of the country where the Communicator was initially set up, switches should be set to match the dialing code and the country location of the travel country (Table 2).
  Due to changes made to the phone line access number in some countries, additional traveling restrictions may apply.
- **If using a cellular or internet connection while traveling** outside of the country where the Communicator was initially set up, switches should remain set for the home country (Table 2 or 3).

Please contact Boston Scientific LATITUDE Patient Services or Customer Support for additional information.