Boston Scientific

PATIENT MANUAL
病人手冊

LATITUDE™ Communicator
LATITUDE™ 遙距監測系統

ENGLISH

LATITUDE™ Communicator

This manual contains instructions for the use of Models 6288* and 6290 LATITUDE Communicators. These instructions are nearly identical for both models. Unless specified as applying to one model only, instructions (as well as technical information) apply to both models. The model number for your Communicator is located on its bottom label.

* Model 6288 may not be available in all geographies.

Table of Contents

LATITUDE Patient Management System

The LATITUDE Patient Management System (referred to as "LATITUDE system" throughout this manual) is a remote monitoring system that gives your health care provider access to your implanted device data between scheduled office visits. The LATITUDE system is designed to improve patient care while providing convenience to you.

The LATITUDE system uses advanced security methods to protect your personal medical information. Only authorized health care providers have access to your information through the secure clinician website.

The LATITUDE system is not meant to assist with health emergencies. If you are not feeling well, call your health care provider or dial emergency services.

The LATITUDE Communicator

The LATITUDE Communicator is an in-home monitoring system that uses a wireless communication system to communicate with your implanted device. The Communicator does not provide continuous monitoring. It automatically reads implanted device information at times scheduled by your health care provider.

At scheduled intervals, the Communicator sends your implanted device data to the LATITUDE system using one of three communication methods:

- Standard telephone line (see page 20); or
- Cellular data network (see page 22); or
- Ethernet (Internet) (see page 26).

The Communicator receives periodic schedule updates made by your health care provider when it connects to the LATITUDE system.

The Communicator does not reprogram or change any functions of your implanted device. Only your health care provider can do this during an office visit.

Your Communicator is designed to work in Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hong Kong, Ireland (Republic), Italy, Netherlands, Norway, Poland, Portugal, Slovak Republic, Spain, Sweden, Switzerland, and the United Kingdom. For more information, see “Traveling with Your Communicator” on page 62.

The telephone (landline) feature of the Communicator is designed to operate on standard telephone lines like those found in most homes. The Communicator supports tone dialing over an analog line. The Communicator may work on other telephone systems, such as digital subscriber line (DSL) and voice over Internet Protocol (VoIP), if those systems provide an analog interface for connecting the Communicator.

Follow the instructions in this manual when using the Communicator. Keep all of your Communicator information in a convenient location for easy access in the future.

Items You Should Receive

The following items are included with the Communicator:

- Communicator unit
- Alternating current (AC) adapter
- Communicator Quick Start Guide
- Communicator Patient Manual (this book)
- Communicator telephone cord
- Telephone jack adapter (optional)

The following items are optional connection accessories, available separately:

- LATITUDE NXT USB Cellular Adapter
- USB Ethernet Adapter

Optional Health Monitoring Equipment

If prescribed by your health care provider, your Communicator can also collect information from an optional LATITUDE heart failure management system. This system includes a LATITUDE weight scale and LATITUDE blood pressure monitor.

These specially designed products provide additional information to monitor your health. Refer to the handbook that is included with the weight scale and blood pressure monitor products.

A universal serial bus (USB) sensor adapter is included with the weight scale and blood pressure monitor. The USB sensor adapter provides a wireless connection between these products and the Communicator. See “Connecting the USB Sensor Adapter” on page 69.

Clinician Website

The clinician website provides authorized health care providers a convenient and secure way to obtain and analyze information from a patient's implanted device.

The LATITUDE system normally displays your device information on the clinician website within 15 minutes. However, it may take longer for your information to appear due to many external factors.

The website provides advanced analysis and trending tools designed at improving patient care. Only your physician and medical personnel authorized by your physician can access your medical data on the password-protected clinician website.

LATITUDE Patient Support

Your implanted device and the LATITUDE Communicator are manufactured by Boston Scientific. In specific cases, your health care provider may instruct you to contact Boston Scientific for assistance with your Communicator. When instructed to contact Boston Scientific, use the appropriate telephone number for your location from the list below.

Country	Number
Austria	0800 202289
Belgium	0800 80697
Czech Republic	239 016 657
Denmark	70 10 01 82
Finland	010 80 48 19
France	0805 5404 22
Germany	069 51709 481
Greece	442 035 647 788
Hong Kong	852 8105 5433
Ireland (Republic)	1890 812005
Italy	848 781164
Netherlands	0800 0292077
Norway	81 00 00 47
Poland	22 306 07 33
Portugal	800844729
Slovak Republic	02 686 223 89
Spain	901 010840
Sweden	020 160 57 07
Switzerland	0844 000110
United Kingdom	0845 602 9283

When to Use Your Communicator

The Communicator performs many functions automatically on a schedule set by your health care provider. Other functions need you to respond when the indicators on the front of the Communicator light or flash. Check the Communicator daily to see if any of the indicators are lit solid or flashing.

Use the Communicator only as instructed by your health care provider. The Communicator's Heart button (Figure 1 on page 15) will flash if it needs you to manually complete an interrogation of your implanted device as scheduled by your health care provider. If the Heart button is flashing, press it and then watch the indicators on the Communicator. Call your health care provider if the Call Doctor icon (Figure 2 on page 16) is lit any color.

When Not to Use Your Communicator

The Communicator is designed to work only with your implanted device. It will not work with another patient's implanted device. The Communicator should be used only as authorized by the prescribing physician. The Communicator is not for use with any implanted device other than a Boston Scientific device.

Ask your health care provider if you have questions about any risks with using the Communicator or your implanted device. There is also valuable information about risks and reliability in the patient handbook for your implanted device.

Where to Place Your Communicator

Place your Communicator:

- Near an electrical outlet that is easily accessible.
- Where you can sit comfortably and see the front of the Communicator.
- Depending on the communication method used:
  - **Standard telephone line**: Near a telephone wall jack.
  - **Cellular data network**: In a location where you get a good signal.
  - **Ethernet (Internet)**: Near an Internet connection.
- Close to where you sleep or near your bedside. If this is not possible, place your Communicator where you spend a considerable amount of time each day.
- Where the Communicator and all its cables and accessories will be kept dry and not exposed to humidity or potential water contact.

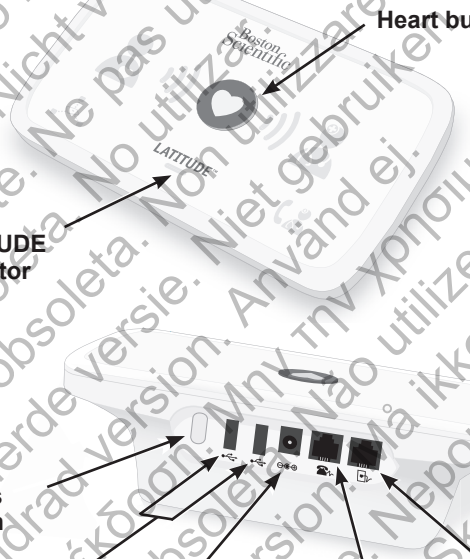
Important Notes

- **It is very important that the Communicator remains plugged into the electrical outlet.**
- **Your Communicator should remain connected to telephone or Internet service unless you are subscribed to the LATITUDE GSM (Global System for Mobile Communications) Data Plan.**

- When setting up your Communicator, use only **one** type of connection (standard telephone line, cellular data network, or Ethernet) even though you may have cables or adapters for more than one.
- This equipment needs to be installed and put into service in accordance with the information in the provided documentation. Call your health care provider if you need assistance setting up or using your Communicator.
- Some household appliances and other sources of electromagnetic energy could interfere with wireless communication between the Communicator and your implanted device. When you are using the Communicator, you should be at least 1 m (3 ft) away from televisions, videocassette recorders (VCRs), digital video disc (DVD) players, personal computers, and other electronic equipment.
- Electrical safety: It is recommended that the customer install a surge protector between the electrical wall outlet and the Communicator. This is to avoid damage to the Communicator caused by local lightning strikes and other electrical surges. Electrical cable wall plugs and other accessories must be in good condition before use.
- Boston Scientific personnel may contact the clinic or patient to advise on the best Communicator placement if an implanted device uses too much radio-frequency (RF) telemetry.

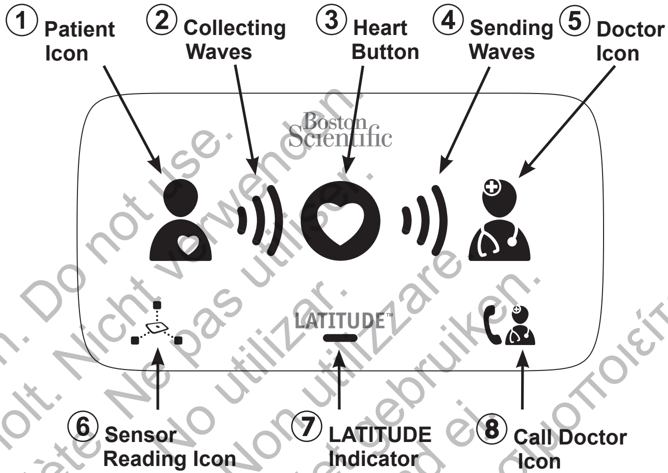
Buttons, Connectors, and Indicators

Figure 1 and Figure 2 show the buttons, indicators, and connectors on the front and back of the Communicator. Refer to “Indicator Descriptions” on page 32 for a description of each indicator.



* USB ports are used to connect the USB sensor adapter and/or the LATITUDE NXT USB Cellular Adapter or USB Ethernet Adapter.

Figure 1. Buttons and Connectors



1. **Patient Icon**: Stay close to the Communicator when lit any color.
2. **Collecting Waves**:
   Green = successfully collecting data.
   Yellow = error collecting data.
3. **Heart Button**: Press when flashing or press to send data.
4. **Sending Waves**:
   Green = successfully sending data.
   Yellow = error sending data.
5. **Doctor Icon**: Data successfully sent when lit blue.
6. **Sensor Reading Icon**: Sensor reading received when lit.
7. **LATITUDE Indicator**:
   Green = Communicator is active and ready to use.
   Yellow = Flashes yellow during start-up process or to indicate an error.
8. **Call Doctor Icon**: Call your doctor when lit any color.

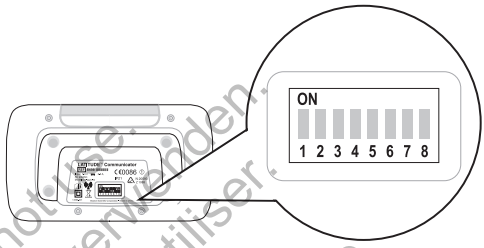
Figure 2. Indicators

For more information about indicators, see “Indicator Descriptions” on page 32.

Installing Your Communicator

Confirming Switch Settings

- Confirm that the white switches numbered 4-8 on the bottom of the Communicator match the country switch settings as shown in Figure 3.
- If the white switches on the bottom of your Communicator do not match the switch settings shown below, slide them up or down to set them as shown.
- Landline telephone connection only: Switches numbered 1-3 may differ from those shown if a dial-out number or prefix is needed to place an outside telephone call. Refer to “Setting Switches for PBX or Dial-out Numbers” on page 68 for those switch settings.



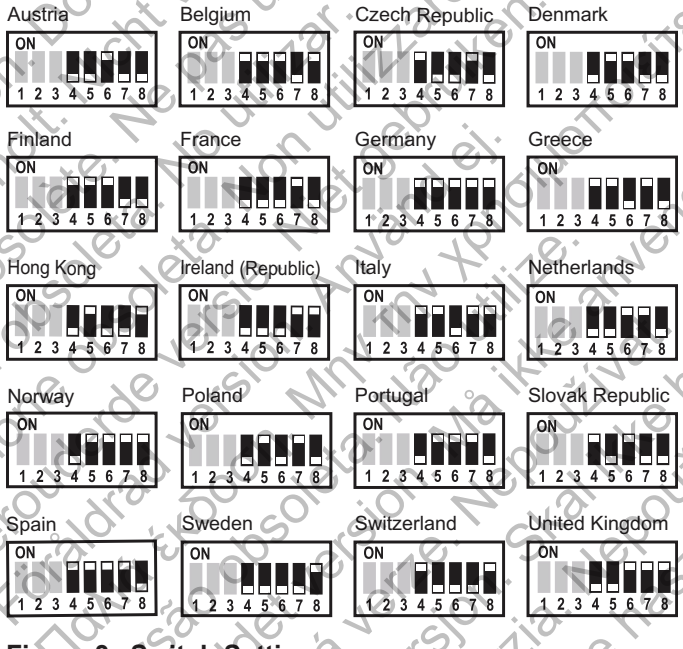


Figure 3. Switch Settings

Connect Your Communicator to the LATITUDE System

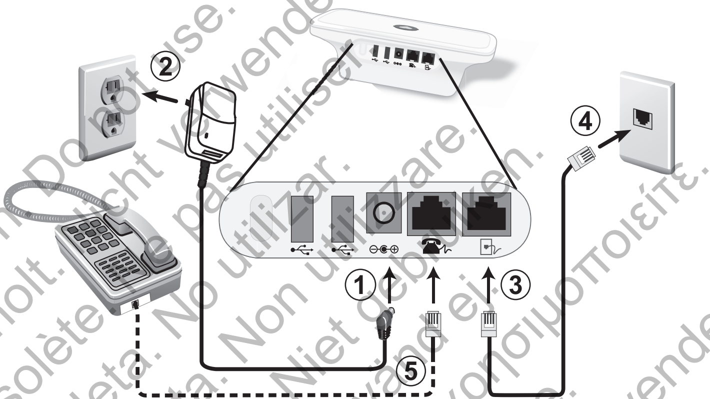
Follow one of the three connection methods listed below to connect to the LATITUDE system:

- **Standard landline telephone**: Follow the steps in "Using a Landline Telephone Jack Connection" on page 20.
- **Cellular data network**: Follow the steps in "Using the LATITUDE GSM Data Plan" on page 22.
- **Ethernet (Internet)**: Follow the steps in "Using a USB Ethernet Adapter Connection" on page 26.

Note: Stay close to the Communicator during the entire installation process to ensure the best connection between your implanted device and the Communicator.

Using a Landline Telephone Jack Connection

Complete the steps below to set up the Communicator for a landline telephone connection.



5. Connecting a telephone is optional.

Figure 4. Using a Landline Telephone Jack Connection

1. Insert the AC adapter (included) into the jack labeled ⊖-⊙-⊕.

2. Plug the AC adapter into an electrical outlet that is easily accessible.
   - The LATITUDE indicator will flash yellow for up to one minute.
   - All the Communicator indicators will light for approximately one second.
   - If the LATITUDE indicator is not lit, check that both ends of the AC adapter are plugged in firmly. Check if the light on the AC adapter is lit.

3. Plug one end of the Communicator telephone cord (included) into the jack labeled .

4. You may need to use a telephone jack adapter (provided). If you do, plug the other end of the telephone cord into the telephone jack adapter. Then plug the other end of the cord into the telephone jack on the wall.

   Note: If you have DSL Internet service, you may need to use a DSL filter between the telephone wall jack and the Communicator. Refer to “DSL Internet Service” on page 64.

5. Optional: To use a telephone with this wall jack, you may plug your telephone into the jack labeled or into the telephone jack adapter.

   Note: Your Communicator and a telephone can share the same telephone wall jack. However, they cannot be used at the same time.

6. When the Heart button flashes, press it.
   - Your Communicator’s wave lights will flash green in sequence and repeat for several minutes as shown in “Indicator Sequence When Using the Heart Button” on page 30.
   - If you have previously completed initial setup, the Heart button will not flash at this point.

7. Your Communicator has successfully connected to the LATITUDE system if the wave lights are lit a solid green as shown below.

Setup is complete, and no further action is needed at this time. Leave your Communicator plugged in.

- If this process takes longer than several minutes, software download and installation may be occurring. Refer to "Software Download and Installation" on page 28.
- If the wave lights are not lit a solid green, refer to "Troubleshooting Errors" on page 39.

Important: Your Communicator should remain connected to the electrical outlet and telephone wall jack.

Using the LATITUDE GSM Data Plan

If you have signed up for the LATITUDE GSM Data Plan, no telephone or Ethernet cables need to be attached.

- *Model 6288* has built-in capability that enables cellular communication between your Communicator and the LATITUDE system. *Model 6288* requires no additional equipment for connection.
- *Model 6290* uses a USB Cellular Adapter to enable cellular communication between your Communicator and the LATITUDE system. The USB Cellular Adapter is provided upon subscription to the Data Plan and must be connected to the Communicator. The following instructions call out "*Model 6290 only*" where applicable.

Refer to "LATITUDE GSM Data Plan" on page 56 for more information.

Where to Place Your USB Cellular Adapter

Important: Maintain a distance of at least 15 cm (6 inches) between the USB Cellular Adapter and your implanted device.

Place your USB Cellular Adapter:

- Away from other electronic products or metal surfaces.
- Alongside the Communicator and not under or on top of it.

How to Set Up Your USB Cellular Adapter

Complete the steps below to set up the Communicator for a cellular data network connection.

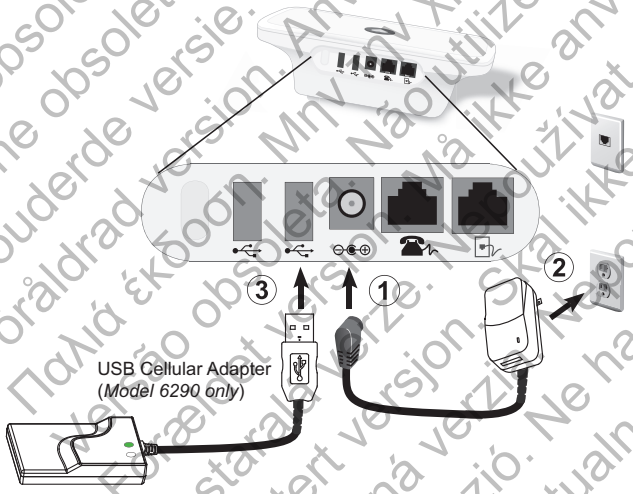


Figure 5. Using the LATITUDE GSM Data Plan

1. Insert the AC adapter (included) into the jack labeled ⊖⊙⊕.

2. Plug the AC adapter into an electrical outlet that is easily accessible.
   - The LATITUDE indicator will flash yellow for up to one minute.
   - All the Communicator indicators will light for approximately one second.
   - If the LATITUDE indicator is not lit, check that both ends of the AC adapter are plugged in firmly. Check if the light on the AC adapter is lit.

3. *Model 6290 only*: Insert the USB connector of the Cellular Adapter into one of the USB ports labeled •⇐. Refer to “Figure 5. Using the LATITUDE GSM Data Plan” on page 23.
   - Confirm that the USB Cellular Adapter is properly connected by verifying that the power indicator ⏻ on the top of the Cellular Adapter is lit. It will remain lit except during a LATITUDE system reboot.

   Note: The wireless indicator ᛉ on the top of the USB Cellular Adapter will flash at various times and at various sequences. This indicator is of no concern during normal operation.

4. When the Heart button flashes, press it.
   - Your Communicator's wave lights will flash green in sequence and repeat for several minutes as shown in "Indicator Sequence When Using the Heart Button" on page 30.
   - If you have previously completed initial setup, the Heart button will not flash at this point.

5. Your Communicator has successfully connected to the LATITUDE system if the wave lights are lit a solid green as shown below.

   Setup is complete, and no further action is needed at this time. Leave your Communicator plugged in.
   - If this process takes longer than several minutes, software download and installation may be occurring. Refer to "Software Download and Installation" on page 28.
   - If the wave lights are not lit a solid green, refer to "Troubleshooting Errors" on page 39.

Important: Your Communicator should remain connected to the electrical outlet and to the USB Cellular Adapter.

Using a USB Ethernet Adapter Connection

Contact your health care provider to obtain a new or replacement USB Ethernet Adapter.

Complete the steps below to set up the Communicator for an Ethernet connection.

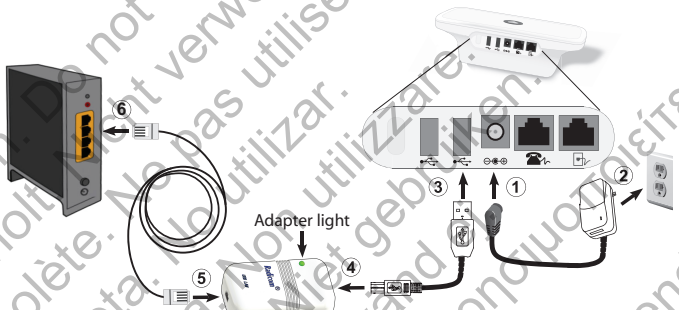


Figure 6. Using a USB Ethernet Adapter Connection

1. Insert the AC adapter (included) into the jack labeled ⊖⊂⊕.
2. Plug the AC adapter into an electrical outlet that is easily accessible.
   - The LATITUDE indicator will flash yellow for up to one minute.
   - All the Communicator indicators will light for approximately one second.
   - If the LATITUDE indicator is not lit, check that both ends of the AC adapter are plugged in firmly. Check if the light on the AC adapter is lit.

Important: For the following steps, make sure you use the Ethernet cable provided with the USB Ethernet Adapter and not the telephone cord provided with the Communicator.

3. Insert the narrow end of the USB cable (included with the USB Ethernet Adapter) into one of the USB ports on the Communicator labeled •⟷.
4. Insert the square end of the USB cable into the end of the USB Ethernet Adapter nearest the adapter light.
5. Insert the Ethernet cable (included with the USB Ethernet Adapter) into the opposite end of the adapter.
6. Plug the Ethernet cable into an Ethernet port for your Internet service, such as a modem, router, or Ethernet wall jack.
   - Confirm that the USB Ethernet Adapter is properly connected by verifying the green light on its front is lit (solid or flashing).
7. When the Heart button flashes, press it.
   - Your Communicator's wave lights will flash green in sequence and repeat for several minutes as shown in "Indicator Sequence When Using the Heart Button" on page 30.
   - If you have previously completed initial setup, the Heart button will not flash at this point.
8. Your Communicator has successfully connected to the LATITUDE system if the wave lights are lit a solid green as shown below.

Setup is complete, and no further action is needed at this time. Leave your Communicator plugged in.

- If this process takes longer than several minutes, software download and installation may be occurring. Refer to “Software Download and Installation” on page 28.
- If the wave lights are not lit a solid green, refer to “Troubleshooting Errors” on page 39.

Important: Your Communicator should remain connected to the electrical outlet and your Internet service.

Software Download and Installation

Updated software may occasionally be pushed to your Communicator for download and installation.

During initial Communicator setup: If a software update is waiting, pressing the Heart button will trigger the download and installation process, which could take an additional several minutes. Wait for the Heart button to flash again, then press it. Follow the remaining setup steps for the connection method you are using.

During normal use, with Communicator already set up: Software download and installation may happen without your knowledge.

Normal Operation of the Communicator

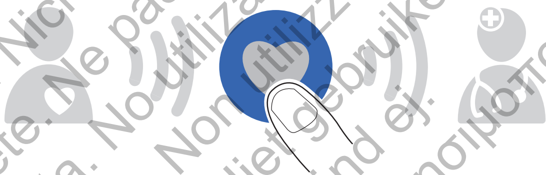
Your Communicator performs device checks every day, and when operating normally, only the LATITUDE indicator will be lit green. Also, the Communicator automatically interrogates your implanted device on a regular schedule set by your health care provider. None of the Communicator indicators will light during a scheduled interrogation or daily device check. They will light when you use the Heart button as described in “Interrogating Your Implanted Device” on page 58 or when using the Status button as described in “Checking that the Communicator Can Connect to the LATITUDE System” on page 60.

> **Note**: When color is used in this manual to explain operation of the Communicator, an indicator shown as gray means that it is not lit. An indicator shown as any other color, including white, means that it is lit.
>
> (A gray heart shown inside the blue circle means that it is not lit. A white heart shown inside the blue circle means that it is lit.)

To summarize, if the LATITUDE indicator is lit green, your Communicator is operating normally.

Indicator Sequence When Using the Heart Button

This section describes how the indicators will light after you press the Heart button. The Communicator interrogates your implanted device and then sends your data to the LATITUDE system. More details about the colors and purpose of the indicators appear later in this manual.



The Communicator begins interrogating your implanted device after the Heart button is pressed.

The Patient icon lights blue. The Collecting Waves flash green in sequence and repeat while the Communicator interrogates your device.

All three Collecting Waves will light green. The Heart button lights solid white, showing the interrogation was a success.

The Sending Waves flash green in sequence and repeat while the Communicator places a call and starts sending your data to the LATITUDE system.

The Doctor icon lights blue showing the Communicator successfully sent your data to the LATITUDE system. All the indicators shown stay lit as shown for 2 minutes to show the entire process was a success.

Indicator Descriptions

The indicators will light to indicate the Communicator's progress when:

- Manually interrogating your implanted device
- Manually connecting and sending your implanted device information to the LATITUDE system
- Collecting a measurement from a prescribed weight scale or blood pressure monitor

One or more indicators may light or flash a different color to indicate some type of action may need to be taken. Refer to "Troubleshooting Errors" on page 39.

Patient Icon

Shows the Communicator is interrogating (collecting data from) your implanted device.

- Lights solid blue when the Heart button is pressed and an interrogation has started.
- Lights solid blue for 2 minutes after a successful interrogation.

Collecting Waves

Show the Communicator is collecting data from your implanted device.

- Flash green in sequence and repeat, showing the Communicator is interrogating your implanted device.
- Light green for 2 minutes to indicate the interrogation was a success.

Heart Button

- A flashing white light means you need to complete a previously scheduled interrogation. Press Heart button to complete.
- A solid white light for 2 minutes means the interrogation is complete. Note that solid white light may appear dim.
- May also be used to manually initiate an interrogation of your implanted device. Refer to “Interrogating Your Implanted Device” on page 58 before using this button.

Sending Waves

Show the Communicator is connecting to the LATITUDE system.

- Flash green in sequence and repeat, showing a connection to the LATITUDE system is in progress.
- Light green for 2 minutes to indicate the connection to the LATITUDE system was a success and any collected device data was sent.

Doctor Icon

Lights blue for 2 minutes to indicate the Communicator has successfully connected to the LATITUDE system. The Communicator sends any data it has collected from your implanted device, weight scale, or blood pressure monitor.

Sensor Reading Icon

Shows the Communicator has successfully communicated with a prescribed weight scale or blood pressure monitor.

- Flashes green five times and lights solid green for 5 minutes to indicate the Communicator successfully received a weight or blood pressure measurement.

LATITUDE Indicator

Shows the Communicator is connected to electrical power. It also shows if the Communicator startup process is being performed or if the Communicator is ready to use.

- Lights green to indicate the Communicator is connected to electrical power and is ready to use.
- Flashes yellow during the startup process.
- May flash yellow for a long time. This means that new software is being installed on the Communicator.

Call Doctor Icon

Lights yellow or red (flashing or solid) to signal a problem that you should report to your health care provider. Refer to the error in “Troubleshooting Errors” on page 39.

A red light ranks higher than a yellow light. If an error for each color occurs at the same time, only the red light is displayed.

- Flashes yellow briefly after the Communicator is plugged into AC power.
- The light turns off after the Communicator completes the startup process.
- If the startup process does not complete, it lights solid yellow.

Status Button

The Status button is located on the back of the Communicator as shown in Figure 7.

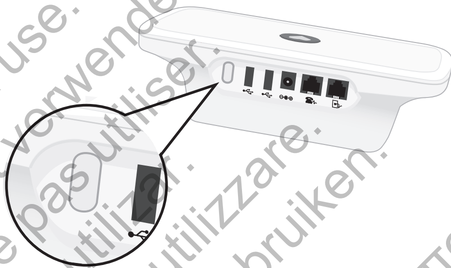


Figure 7. Status Button

The Status button performs one the following actions depending on how long the button is pressed:

- **Press for less than 3 seconds**: The Communicator indicators will light to show:
  - The status of the last interrogation.
  - The status of the last connection to the LATITUDE system.

  The indicators will light for 2 minutes. If the Call Doctor icon was flashing, it will stop flashing and light solid.
- **Press and hold for more than 3 seconds**: The Sending Waves flash green in sequence and repeat while the Communicator connects to the LATITUDE system.

Note: If you pressed the Heart button, the Status button will not function until the resulting interrogation is completed or is cancelled.

Confirming Successful Operation

You can use the Status button to check if the Communicator has been operating normally. The above image shows that all the Collecting and Sending Waves are lit green, confirming that the last interrogation and the last connection to the LATITUDE system were a success. When all the waves are green, no action is needed.

Troubleshooting Errors

Troubleshooting Icon and LATITUDE Indicator Errors

One or more of the indicators on the front of the Communicator may light or flash to indicate some type of Communicator, communication, or LATITUDE system error. A general description of the types of errors are shown in Figure 8. A description of each error is provided in this section, along with suggested actions to resolve each error.

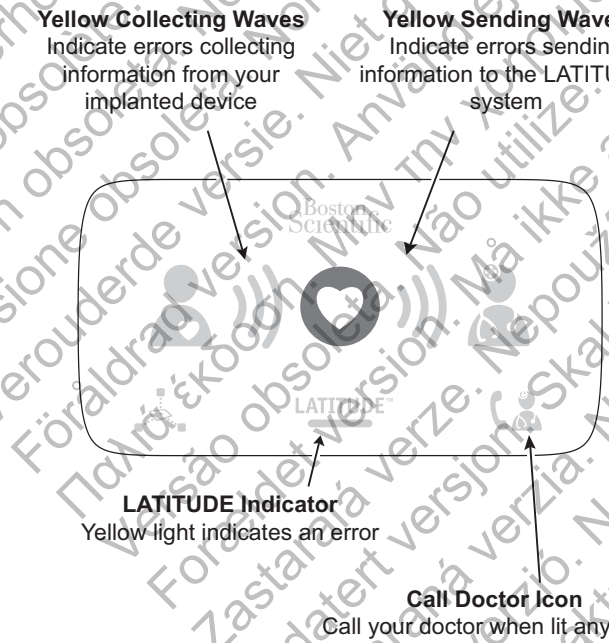


Figure 8. Types of Errors

Heart Button is Flashing
LATITUDE Indicator is Green

Description: You need to complete a previously scheduled interrogation.

Action:

- Press the Heart button to complete the interrogation.
- If the Heart button is lit a solid white, the interrogation has been a success. No further action is required.

No Indicators are Lit

Description: No indicators are lit.

The Communicator is not connected to electric power or it is not functioning.

Action:

- If the LATITUDE indicator is not lit, check that both ends of the AC adapter are plugged in firmly.
- Check if the light on the AC adapter is lit.
- If the Communicator is plugged into electric power and the light on the AC adapter is lit, contact your health care provider.

LATITUDE Indicator is Flashing Yellow
No Other Indicators are Lit

Description: The LATITUDE indicator is flashing yellow.

The Communicator is starting up or may be downloading and installing software.

This process typically lasts only one minute but may take up to 10 minutes.

Action:

- No action is required unless the LATITUDE indicator flashes for longer than 10 minutes. In that case, contact your health care provider.

Call Doctor Icon is Red
LATITUDE Indicator is Yellow

Description: The Call Doctor icon is red (flashing or solid), and the LATITUDE indicator is yellow.

A potential problem with your implanted device was detected, but the Communicator cannot send any information collected from your implanted device to the LATITUDE system.

The Call Doctor icon and LATITUDE indicator will light solid as shown until the problem is resolved.

Action: Your immediate response is required. Call your health care provider.

English

Call Doctor Icon is Yellow
LATITUDE Indicator is Yellow

Description: The Call Doctor icon is yellow (flashing or solid), and the LATITUDE indicator is yellow.

Indicates one of the following errors:

- Your Communicator is currently unable to monitor your implanted device.
- Monitoring of your implanted device was suspended through the LATITUDE system.

The Call Doctor icon and LATITUDE indicator will light solid yellow until the problem is resolved.

Action: Call your health care provider.

Call Doctor Icon is Yellow
LATITUDE Indicator Not Lit

Description: The Call Doctor icon is lit a solid yellow, and the LATITUDE indicator is not lit. This indicates your Communicator may not be working properly.

Action: You may need a replacement Communicator. Contact your health care provider.

Troubleshooting Yellow Wave Indicator Errors

One or more of the Wave indicators will light yellow to indicate some type of error as described in the following Wave sections. Wave indicators light yellow for 60 minutes unless the error is resolved sooner. After 60 minutes, all Wave lights are turned off and the LATITUDE indicator is lit green, even if the problem was not resolved.

If the error fails to resolve after trying the action steps in the following section, call your health care provider.

> **Note**: In addition to the Wave indicators lighting yellow to indicate an error, the LATITUDE indicator lights yellow at the same time.

One Yellow Collecting Wave

Description: The Communicator was unable to start an interrogation of your implanted device, or your implanted device was out of range at the time of the attempted interrogation.

Action:

- Ensure the Communicator is optimally placed as described in “Where to Place Your Communicator” on page 13.
- Face the Communicator. Sit directly in front of the Communicator. Make sure you are within 3 m (10 ft) of the Communicator.
- Move any wireless electronic products (such as cordless or cellular phones or baby monitors) that are within 1 m (3 ft) of the Communicator.

To verify that troubleshooting was a success:

- Press the Heart button to start another interrogation. If the interrogation was a success, all three Collecting Waves will light green for 2 minutes.

Two Yellow Collecting Waves

Description: The Communicator started but was not able to complete the interrogation within the time allowed.

Action:

- Ensure the Communicator is optimally placed as described in “Where to Place Your Communicator” on page 13.
- Face the Communicator. Sit directly in front of the Communicator. Make sure you are within 3 m (10 ft) of the Communicator.
- Remain still until the interrogation is complete. Do not move away from the Communicator.
- Move any wireless electronic products (such as cordless or cellular phones or baby monitors) that are within 1 m (3 ft) of the Communicator.

To verify that troubleshooting was a success:

- Press the Heart button to start another interrogation. If the interrogation was a success, all three Collecting Waves will light green for 2 minutes.

Three Yellow Collecting Waves

Description: Any of the following reasons could cause this error:

- You may have exceeded your weekly interrogation limit, or you may not be allowed to use the Heart button.
- The Communicator was unable to establish wireless communication with your implanted device due to interference from another person's implanted device.

Action:

- If you are planning to interrogate your device, wait 10 minutes. Then try pressing the Heart button again to initiate the interrogation.
- Do not press the Heart button while the interrogation is in progress unless you intend to stop the interrogation.
- If you see three yellow waves after pressing the Heart button, contact your health care provider.

One Yellow Sending Wave

Description: The Communicator was not able to make a connection to the LATITUDE system for one of the following reasons:

- No dial tone was detected when attempting to use the telephone line.
- No cellular providers were detected when attempting to connect using the LATITUDE GSM Data Plan.
- No Ethernet connection was detected when attempting to connect using the USB Ethernet Adapter.

Action: If using a landline telephone connection:

- Check that the telephone cord provided with the Communicator is plugged in tightly to a telephone wall jack and the Communicator.
- Pick up the telephone and check for dial tone. If no dial tone, try a different telephone wall jack.

- If you have DSL Internet service, ensure you are using a DSL filter between the Communicator and the telephone wall jack.
- Check that the analog telephone service supports the tone dialing mode.

If using the LATITUDE GSM Data Plan:

- If you have not activated the LATITUDE GSM Data Plan, see page 56.
- Make sure the USB Cellular Adapter is plugged into the Communicator.
- Move the Communicator to another location that may have better cellular reception.
- If other locations do not work after trying another connection, try plugging the Communicator into an active telephone wall jack.

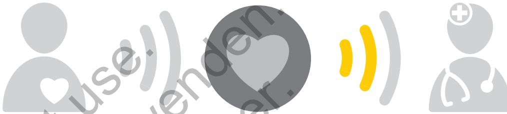
If using the USB Ethernet Adapter:

- Make sure the USB cable provided with the USB Ethernet Adapter is connected at one end to the USB Ethernet Adapter and at the other end to the Communicator.
- Make sure the Ethernet cable provided with the USB Ethernet Adapter is firmly connected at one end to the USB Ethernet Adapter and at the other end to the Ethernet port for your Internet service.
- If the green light on the front of the USB Ethernet Adapter is not on, make sure the Internet modem or router is powered on.

To verify that troubleshooting was a success:

- Press and hold the Status button until the Sending Waves flash green in sequence and repeat. If the connection is successful, all three Sending Waves will light green for 2 minutes.

Two Yellow Sending Waves



Description: An attempt to connect to the LATITUDE system failed due to connection issues relating to the landline telephone, cellular network, or Ethernet.

If using a landline telephone connection, another device (telephone, answering machine, or computer) may be using or attempting to use the telephone line.

Action: If using a landline telephone connection:

- Make sure your telephone is not being used at this time.
- Pick up the telephone and check for dial tone. If no dial tone, try a different telephone wall jack.
- Remove any splitters between the Communicator and the telephone wall jack.
- If you have DSL Internet service, ensure you are using a DSL filter between the Communicator and the telephone wall jack.

- Check that the switches on the bottom of the Communicator are set correctly for your country and whether you need to dial a number to get an outside line. Refer to “Confirming Switch Settings” on page 17.

If using the LATITUDE GSM Data Plan:

- If you have not activated the LATITUDE GSM Data Plan, see page 56.
- Move the Communicator to another location that may provide a stronger cellular signal.
- If other locations do not work after trying another connection, try plugging the Communicator into an active telephone wall jack.

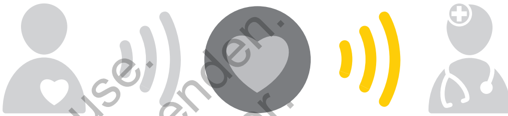
If using the USB Ethernet Adapter:

- Make sure the Ethernet cable provided with the USB Ethernet Adapter is connected to the Ethernet port for your Internet service.

To verify that troubleshooting was a success:

- Press and hold the Status button until the Sending Waves flash green in sequence and repeat. If the connection is successful, all three Sending Waves will light green for 2 minutes.

Three Yellow Sending Waves



Description: The Communicator was able to establish a connection, but no information reached the LATITUDE system.

Action:

- Check that the switches on the bottom of the Communicator are set correctly for your country and whether you need to dial a number to get an outside line. Refer to “Confirming Switch Settings” on page 17.

If using the USB Ethernet Adapter:

- Make sure that other computers or devices connected to your Internet modem or router are able to access the Internet.

To verify that troubleshooting was a success:

- Press and hold the Status button until the Sending Waves light green and show progress.
- If you see three yellow waves after trying the above action, your Communicator may not be set up correctly in the LATITUDE system. Contact your health care provider.

LATITUDE GSM Data Plan

The LATITUDE GSM Data Plan uses a cellular data network rather than a standard landline telephone connection to send your implanted device data to the LATITUDE system. The LATITUDE GSM Data Plan is an optional subscription service that must be activated before your Communicator can use this service.

Model 6288 requires no additional equipment for connection between your Communicator and the LATITUDE system.

Model 6290: Upon subscription, you will receive a USB Cellular Adapter that enables cellular communication between your Communicator and the LATITUDE system.

The LATITUDE GSM Data Plan uses a data-only network. It does not send voice signals and it cannot be used with your cellular phone service.

> **Note:** Your Communicator is designed to use an Ethernet connection, if available, or a landline telephone connection if it is plugged into an active telephone jack. If connected, your Communicator will send your implanted device data over the Ethernet or landline telephone connection even if you are subscribed to the LATITUDE GSM Data Plan.

Cellular Converter

You may already have a Multi-Tech Systems MultiConnect™ MT200A2W analog-to-wireless cellular converter from a previous Communicator. Your LATITUDE Communicator may use the Multi-Tech Systems MultiConnect™ MT200A2W analog-to-wireless cellular converter to access a cellular network. The MultiConnect Converter has been tested and found to be compatible with the LATITUDE Communicator. Use of the converter is optional.

Activating the LATITUDE GSM Data Plan

If you do not have a standard telephone line or your current telephone service is not fully compatible, contact your health care provider to check if the LATITUDE GSM Data Plan can be activated.

Model 6288: An activated plan only works with your Communicator. If a replacement Communicator is ever needed, or if you need to update your subscription, contact your health care provider.

Model 6290: An activated plan works only with your LATITUDE NXT USB Cellular Adapter. If a replacement adapter is ever needed, or if you need to update your subscription, contact your health care provider.

Once the LATITUDE GSM Data Plan is activated, you can verify the connection by following the instructions in “Checking that the Communicator Can Connect to the LATITUDE System” on page 60. If you travel to another location with your Communicator, check the connection from that location.

Troubleshooting and Support

Subscription to the LATITUDE GSM Data Plan does not guarantee coverage. Actual coverage may be affected by such things as terrain, weather, foliage, buildings and other construction, signal strength, customer equipment, and other factors.

The Sending Waves may light yellow if your Communicator cannot connect through an activated LATITUDE GSM Data Plan. If this happens, refer to the Sending Waves sections of this manual, page 50 through page 55. If the Communicator is still unable to connect, contact your health care provider for assistance.

If your Communicator is not able to connect to the LATITUDE system using the LATITUDE GSM Data Plan, try plugging the Communicator into an active telephone jack.

Discontinuing Your LATITUDE GSM Data Plan

Contact your health care provider to discontinue use of the LATITUDE GSM Data Plan.

Interrogating Your Implanted Device

The Communicator automatically interrogates your implanted device on a regular schedule set by your health care provider. This may happen without your awareness and should not require any action on your part. Daily device checks are also performed automatically. None of the Communicator indicators will light during a scheduled interrogation or daily device check.

A scheduled interrogation will not be completed if you are out of range (3 m/10 ft) from the Communicator when it attempts to communicate with your implanted device. If the Communicator is unable to automatically interrogate your device after repeated attempts, the Heart button will flash to allow you to complete the interrogation manually. The Heart button also flashes the first time you use the Communicator.

The Heart button is designed to enable you to manually interrogate your implanted device. Manual interrogation is a feature that must be enabled by your health care provider. When you press the Heart button, the Communicator checks to make sure that the interrogation is permitted. You should only use the Heart button if it is flashing or when instructed to do so by your health care provider.

If you press the Heart button by mistake (not intending to perform an interrogation), press and hold the Heart button again for at least 5 seconds to cancel the interrogation. The Collecting Waves may light yellow and show progress while the interrogation is being cancelled.

When using the Heart button, you should stay close to the Communicator during the entire interrogation process to ensure optimum communication between your implanted device and the Communicator.

If a manual interrogation is not permitted, either because the limit has been reached or because the feature is disabled, the Communicator automatically calls the LATITUDE system. This is done to check for a change in the number of manual interrogations allowed or to check if this feature has been re-enabled.

CAUTIONS:

- Normal use of the LATITUDE system has been accounted for in the projected battery life of your implanted device. Using the Heart button more often than when the Heart button flashes or more often than instructed by your health care provider may lead to a decrease in the battery life of your implanted device.
- If you feel unwell or are in need of urgent health care, call your health care provider or dial emergency services.

Interrupted Electrical Power

The Communicator has internal memory that stores your interrogation and other information in case the electrical power is interrupted or the AC adapter is unplugged. The LATITUDE indicator will transition back to green once power is restored to the Communicator.

Checking that the Communicator Can Connect to the LATITUDE System

Complete the following steps to check that the Communicator can connect to the LATITUDE system. You should do this if you have moved the Communicator or if there has been a change in your telephone service or LATITUDE GSM Data Plan subscription.

1. Check that the Communicator is plugged in and the LATITUDE indicator is green.

2. Press and hold the Status button on the back of the Communicator for more than 3 seconds. The Sending Waves flash green in sequence and repeat while the Communicator attempts to connect to the LATITUDE system.

   If both Collecting and Sending Waves light, you did not press the Status button long enough. Pressing the Status button for less than 3 seconds displays the status of the last interrogation and the status of the last attempt to connect to the LATITUDE system.

3. Watch the front of the Communicator. The Sending Waves should flash green in sequence and repeat, showing a connection to the LATITUDE system is in progress.

4. Wait several minutes for the connection to complete.

5. **If the connection was successful**, all three of the Sending Waves will light green for 2 minutes.

   If the connection was unsuccessful, one or more of the Sending Waves will light yellow. Refer to the appropriate condition in the "Troubleshooting Yellow Wave Indicator Errors" section beginning on page 46 for actions to take.

Traveling with Your Communicator

You can use your Communicator away from home if you will be gone for an extended period. Consult your health care provider before planning to travel for an extended period, whether or not you take your Communicator. Your health care provider may need to temporarily change your interrogation schedule or, if you are traveling outside the country, give you information about connecting to the LATITUDE system.

The LATITUDE Communicator has been designed to work in Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hong Kong, Ireland (Republic), Italy, Netherlands, Norway, Poland, Portugal, Slovak Republic, Spain, Sweden, Switzerland, and the United Kingdom.

If using the LATITUDE GSM Data Plan or Ethernet adapter, the Communicator is allowed to be used in other European Economic Area (EEA) countries. When traveling to a country outside of the EEA, the data transmitted from the Communicator will be subject to laws of that country. The laws of that country may provide less privacy protection for your data than the laws of your home country. Please contact your health care provider for specific information about data privacy.

Model 6288 only: Use of this Communicator outside the EEA may be restricted due to RF laws.

If you take your Communicator with you, check that the Communicator can connect to the LATITUDE system. Refer to “Checking that the Communicator Can Connect to the LATITUDE System” on page 60.

Communicator Use of the Telephone System (Landline Telephone Only)

The Communicator makes telephone calls when there is a need to send data to the LATITUDE system. These calls usually last for approximately 5 minutes.

The Communicator can only make outgoing calls. It cannot receive calls. The Communicator is designed to operate on standard landline telephone connections like those found in most homes and supports tone dialing over an analog line. The Communicator may work on other telephone systems, such as DSL and VoIP, if those systems provide an analog interface for connecting the Communicator. The Communicator should not be connected to a digital phone interface, such as those commonly used in some businesses, hotels, and managed care facilities (nursing homes, skilled care facilities, rehabilitation centers) where telephones are typically provided by the facility.

If you have other telephone equipment (including fax machine, answering system or computer modem) connected to the same phone line and the line is in use, the Communicator will wait and attempt to place a call later. If you have heavy phone line usage that delays or prevents the Communicator from placing or completing phone calls, it may be appropriate to install an additional telephone line.

Your Communicator and a telephone can share the same telephone wall jack; however, they cannot be used at the same time. The Communicator will relinquish control of the telephone line shortly after you pick up the phone, provided that the telephone line meets the specifications stated on page 70.

Using the Telephone While the Communicator is Making a Call

If you pick up the phone while the Communicator is using the telephone line, hang up the receiver, wait 3 or more seconds, and then pick up the telephone receiver again. The Communicator will disconnect and dial tone will be restored.

If the Communicator does not disconnect and restore dial tone, hang up the receiver. Then unplug the Communicator from electrical power. You can then use your phone. Plug the Communicator back in after you have finished using the phone.

The Communicator will attempt to reconnect later.

DSL Internet Service

This section applies only if you are using a landline telephone jack connection to the LATITUDE system.

If you have digital subscriber line (DSL) Internet service provided through your telephone line, you may need to install a DSL filter between the wall phone jack and the LATITUDE Communicator.

Most DSL filters are small rectangular devices with standard telephone jack connectors at each end. These filters are typically provided by DSL service providers to connect telephones, an answering machine, or a fax machine to your telephone line.

If you use DSL filters for such devices, you will need to install a DSL filter to use the Communicator. If you use a dual-port DSL filter, connect the Communicator to the port labeled PHONE or where you would typically connect a telephone. For assistance, contact your DSL service provider or health care provider.

Care and Maintenance

Your Communicator does not require any regular service or maintenance.

Your Communicator does not require electrical safety testing after installation or during periodic maintenance.

To ensure optimum performance of your Communicator and accessories and protect them from damage, follow these directions:

CAUTIONS:

- Do not drop or mishandle the Communicator or its accessories in a manner that would cause damage.
- Avoid getting liquid on the unit other than cleaning it as recommended. Do not use abrasive cloth or solvents to clean the unit.
- Do not submerge the Communicator or its accessories in liquid.
- Do not attempt to open the Communicator or any of its accessories.
- Use this unit as described in this instruction manual. Use only authorized parts and accessories. Do not attempt to modify or alter this unit or accessories.

If your Communicator or accessories become damaged or malfunction, contact your health care provider.

Cleaning the Communicator and Accessories

When necessary, clean the Communicator and its accessories with a soft, clean, lint-free cloth moistened in water or mild detergent. Note that the finish on some types of furniture could be affected as a result of continuous contact with rubber material such as the type used on the base of the Communicator.

CAUTIONS:

- Do not use other cleaning fluids. They may damage the front lens of the Communicator. Never spray any cleaning fluid directly on the Communicator front lens. Do not allow moisture to accumulate on or around the lens or Heart button.
- Avoid using any cleaning fluid near the electrical plugs on the back of the Communicator.

Returning, Replacing, or Disposing of the Communicator, USB Cellular Adapter, or USB Ethernet Adapter

If you need to replace either your Communicator, USB Cellular Adapter, or USB Ethernet Adapter because it is damaged or no longer works, or if you need a different model, contact your health care provider to learn how to return and replace it.

If you no longer need to use either your Communicator, USB Cellular Adapter, or USB Ethernet Adapter, contact your health care provider to learn how to return it.

Your Communicator may contain encrypted health data. Dispose of it only as described above.

Setting Switches for PBX or Dial-out Numbers

(This section applies only to landline telephone connections.) You can use your Communicator with a private branch exchange (PBX) in a managed care facility, hotel, or other location that requires you to enter a dial-out number or prefix to place an outside call. The first three white switches (1, 2, and 3) on the bottom of the Communicator must be set to match your dial-out number. If using the USB Cellular Adapter or USB Ethernet Adapter, switches 1-3 do not matter.

Switch settings for different dial-out numbers are shown in Figure 9. Refer to “Confirming Switch Settings” on page 17 for information on switches 4-8.

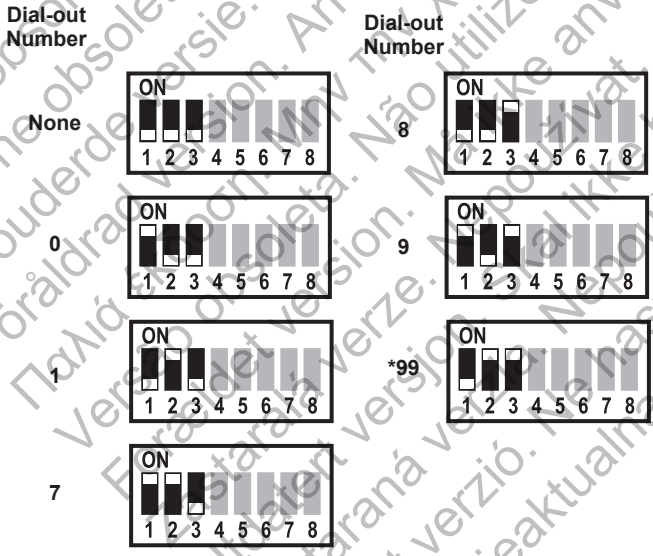


Figure 9. Dial-out Number Switch Settings

Connecting the USB Sensor Adapter

The USB sensor adapter is included with a LATITUDE weight scale and blood pressure monitor. The USB sensor adapter provides a wireless connection between these products and the Communicator. Refer to Figure 10.

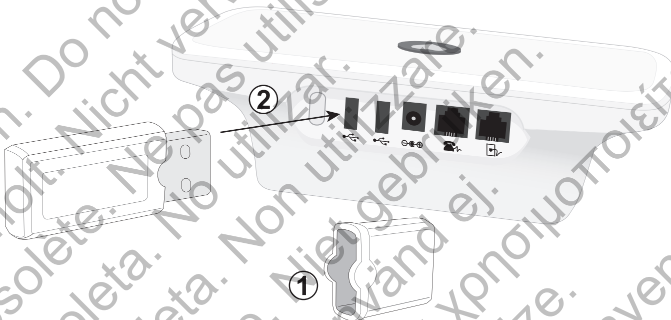


Figure 10. USB Sensor Adapter Connection

1. Remove the cap from the USB sensor adapter.
2. Plug the USB sensor adapter into either of the USB ports labeled •⭠ on the back of the Communicator.

Leave the USB sensor adapter plugged into the Communicator so the Communicator can receive measurements whenever you use your weight scale or blood pressure monitor.

Specifications

Model:	6288 and 6290 (Unless specified, values apply to both models.)
Dimensions:	Length: 20.3 cm (8.00 in) Width: 11.4 cm (4.50 in) Height: 6.9 cm (2.71 in)
Weight:	0.38 kg (0.83 lbs)
Power Source:	5.0 VDC, 3.0 A, continuous service Class II AC adapter: *Model 6288*: GlobTek™ GTM41060-1505 (included) Boston Scientific 358477-001 (UK) Boston Scientific 358476-002 (EU) *Model 6290*: GlobTek™ GTM41061-1512-7.0 (included) Boston Scientific 350126-001 (UK and HK) Boston Scientific 350120-001 (EU)
Power Supply:	
Input:	100-240 VAC, 0.6 A, 50-60 Hz
Maximum Output:	15 W
Supply Mains Isolation:	AC adapter plug
Protection against electric shock:	Class II
Minimum Operational Loop Current:	20 mA
Expected Service Life:	Up to 15 years

Safety Classification of Ports:	RJ-11 ports: TNV-3 circuit USB ports: SELV circuit
Model 6288 only: Short Range Device (SRD) Receiver:	Category 2
Analog Dialing Mode:	Tone
Operating Temperature:	5° C to 40° C (41° F to 104° F)
Storage and Transport Temperature*:	-25° C to 70° C (-13° F to 158° F)
Operating Humidity:	15% to 93% noncondensing
Storage and Transport Humidity*:	Up to 93% noncondensing
Operating Pressure:	70 to 106 kPa
Storage and Transport Pressure*:	50 to 106 kPa
Protection Against Ingress of Solid Foreign Objects:	IP21 (≥12.5 mm diameter)
Protection Against Ingress of Water:	IP21 (light rain proof)

* Storage and transport specifications apply with or without Communicator protective packaging.

Communicator Implanted Device Radio (*Model 6288*):

Receive Bandwidth:	±150 kHz
Frequency Band:	869.85 MHz
Modulation Transmit Type:	ASK (Amplitude-Shift keying)
Effective Radiated Power:	<2.0 dBm (1.6 mW)
Antenna Type:	Monopole
Antenna Gain:	2.1 dBi at 869.85 MHz

Communicator Implanted Device Radio (*Model 6290*):

Receive Bandwidth:	<300 kHz
MICS/MedRadio:	402-405 MHz
Modulation Transmit Type:	FSK (Frequency-Shift keying)
Effective Radiated Power:	<-16 dBm (25 µW)
Antenna Type:	Monopole
Antenna Gain:	0.0 dBi at 403.5 MHz

USB Sensor Adapter:

2.4 GHz wireless USB dongle
Delta Mobile Systems™ Model DM210
Boston Scientific Model 6454
(included with LATITUDE weight scale and blood pressure monitor)

Operational Frequency:	2400.0 to 2480.0 MHz
Modulation Type:	Adaptive Frequency Hopping
Effective Radiated Power:	14 dBm (25 mW)
Operating Temperature:	0° C to 70° C (32° F to 158° F)
Storage and Transport Temperature:	-20° C to 85° C (-4° F to 185° F)
Operating Humidity:	10% to 85% noncondensing
Storage and Transport Humidity:	10% to 85% noncondensing
Antenna Type:	Monopole
Antenna Gain:	2.6 dBi at 2442 MHz

DSL Filter (if supplied):

Digital Subscriber Line (DSL) in-line filter

Excelsus™ Technologies, Inc. - Model Z-200SM

Boston Scientific - Model 6421

DC Loop Current: 20-100 mA DC

Model 6288 Cellular Radio:

EGSM-900:	TX 880–915 MHz RX 925–960 MHz Effective Radiated Power: 29.0 dBm Antenna Type: Monopole Antenna Gain: 1.0 dBi at 897.4 MHz
DCS-1800:	TX 1710–1785 MHz RX 1805–1880 MHz Effective Radiated Power: 26.0 dBm Antenna Type: Monopole Antenna Gain: 4.0 dBi at 1747.4 MHz

LATITUDE NXT USB Cellular Adapter (Model 6296):

EGSM-900:
TX 880–915 MHz
RX 925–960 MHz
Effective Radiated Power: 28.7 dBm
Antenna Type: Monopole
Antenna Gain: 1.7 dBi at 897.4 MHz

DCS-1800:
TX 1710–1785 MHz
RX 1805–1880 MHz
Effective Radiated Power: 26.7 dBm
Antenna Type: Monopole
Antenna Gain: 2.2 dBi at 1747.4 MHz

W-CDMA 900:
TX 880–915 MHz
RX 925–960 MHz
Effective Radiated Power: 18.0 dBm
Antenna Type: Monopole
Antenna Gain: 1.7 dBi at 897.4 MHz

W-CDMA 2100:
TX 1920-1980 MHz
RX 2110-2170 MHz
Effective Radiated Power: 18.4 dBm
Antenna Type: Monopole
Antenna Gain: 1.8 dBi at 1949.9 MHz

Safety and Standards Compliance

- Changes or modifications not expressly approved by Boston Scientific could void the user's authority to operate this equipment.
- Before each use, visually inspect your Communicator to make sure the housing has no cracks and the AC adapter and any other connecting items are intact.
- The use of accessories and cables other than those specified may result in increased emissions or decreased immunity of the LATITUDE Communicator.
- Keep your Communicator and all accessories out of the reach of small children and pets. Small parts may cause choking or serious injury if swallowed and attached cords may pose a strangulation hazard. Consult a health care professional immediately if this occurs.
- Do not insert any object other than a phone connector into the phone jacks on the back of the Communicator. There can be voltage on the electrical contacts in the jacks. There is potential to receive a shock.
- Do not use the Communicator in the presence of flammable gas mixtures, including anesthetics, oxygen, or nitrous oxide.
- The user is cautioned to maintain a 20 cm spacing from the product to ensure compliance with European Norm (EN) requirements.

- *Model 6288 only*: To help prevent electromagnetic interference, it may be necessary to keep other wireless communications equipment such as cellular telephones and their base stations, mobile phones, and wireless home network devices at least 3.3 m (11 ft) away from the Communicator.
- *Model 6290 only*: To help prevent electromagnetic interference, it may be necessary to keep other wireless communications equipment such as cellular telephones and their base stations, mobile phones, and wireless home network devices at least 0.5 m (1.6 ft) away from the Communicator.
- Other wireless communication equipment could interfere with the Communicator even if the other equipment complies with CISPR (Special International Committee on Radio Interference) emission requirements.
- If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of the Communicator does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.
- The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service. If the equipment

is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

- This equipment has been tested and found to comply with applicable safety portions of the EN 60601-1:2006 standard.
- This equipment has been tested and found to comply with the following electromagnetic compatibility (EMC) standard: EN 60601-1-2:2007.
- Radio and Telecommunications Terminal Equipment (RTTE). Boston Scientific hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. To obtain a full text Declaration of Conformity, contact Boston Scientific using the information on the back cover.
- Accessory equipment connected to the analog and digital interfaces (signal inputs and signal outputs) must be certified according to the respective EN standards. Anyone who connects additional equipment to the signal input parts or signal output parts may configure a medical system, and is therefore responsible that the system complies with the requirements of clause 16 of EN 60601-1:2006. If in doubt, consult the technical service department or your local representative.

Software

The software included in this product contains copyrighted software that is licensed under the GNU General Public License (GPL). Under the terms of the GPL as published by the Free Software Foundation, you may obtain the complete corresponding source code from us for a period of three years after our shipment of this product.

Explanation of Product and Label Symbols

Symbol	Meaning
	Input from telephone jack
	Output to telephone (optional)
	AC/DC adapter power input
	Direct current (DC)
	Universal serial bus (USB) connector
P/N	Part number
SN	Serial number
REF	Reference number
	Non-ionizing electromagnetic radiation
	IEC 60601 Class II medical equipment, protection against electrical shock
	Manufacturer
	Date of manufacture
	Follow instructions for use
IP21	Protection against ingress of solid foreign objects and water

Symbol	Meaning
3.0	Ready for LATITUDE NXT 3.0
CE	CE mark of conformity (applies to USB sensor adapter)
CE 0086	CE mark of conformity with the identification of the notified body authorizing use of the mark (applies to *Models 6290 and 6296*)
CE 0086 ①	CE mark of conformity with the identification of the notified body authorizing use of the mark and RTTE designation for radio equipment with a use restriction (applies to *Model 6288*)
EC REP	Authorized representative in the European Community
AUS	Australian sponsor address (applies to distribution box)
	Power indicator (applies to USB Cellular Adapter)
	Wireless indicator (applies to USB Cellular Adapter)
	Waste, Electrical, and Electronic Equipment (WEEE) symbol. Indicates separate collection for electrical and electronic equipment (i.e., do not throw this device in the trash)
ANATEL Agência Nacional de Telecomunicações	Indicates compliance with Anatel Resolutions for telecommunication equipment (Brazil)
	Indicates this product complies with applicable Australian telecommunications and radiocommunications standards requirements and that this product can be connected to an Australian Telecommunications Network or facility (applies to *Models 6290 and 6296*)

Symbol	Meaning
	Indicates this product complies with applicable Australian telecommunications and radiocommunications standards requirements and that this product can be connected to an Australian Telecommunications Network or facility (applies to *Model 6288*)
	Indicates the product complies with applicable Australia radiocommunications standards (applies to USB sensor adapter)
TELEPERMIT This Boston Scientific 6288 Data Modem may be connected to the Telecom Network PTC 211 / 12 / 010 RN = 0.5	Representative sample of symbol that indicates that this device may lawfully be connected to the network in New Zealand
R T	Indicates this product complies with applicable Japanese telecommunications standards (applies to *Model 6296*)
	Temperature range limits
	Humidity range limits
	Atmospheric pressure range limits

Frequently Asked Questions

These FAQs are designed to point you to the right section in this manual for the answers.

Does the Communicator call emergency services in an emergency?

No. The LATITUDE system is not meant to assist with health emergencies. If you are not feeling well, call your health care provider or dial emergency services. See “LATITUDE Patient Management System” on page 7.

Where should I place my Communicator?

See “Where to Place Your Communicator” on page 13.

How do I set up my Communicator using a landline telephone?

See “Using a Landline Telephone Jack Connection” on page 20.

How do I set up my Communicator using the LATITUDE GSM Data Plan and a USB Cellular Adapter?

See “Using the LATITUDE GSM Data Plan” on page 22.

How do I set up my Communicator using a USB Ethernet Adapter?

See “Using a USB Ethernet Adapter Connection” on page 26.

English

How do I know the Communicator is working?

See “Normal Operation of the Communicator” on page 29.

What do these lights mean?

See “Indicator Descriptions” on page 32 or “Troubleshooting Errors” on page 39.

How do I manually send my data?

See “Indicator Sequence When Using the Heart Button” on page 30.

When do I use my Communicator?

See “LATITUDE Patient Support” on page 11 or “Interrogating Your Implanted Device” on page 58.

What do I need to do with my Communicator if I travel?

See “Traveling with Your Communicator” on page 62.

How do I dispose of my Communicator?

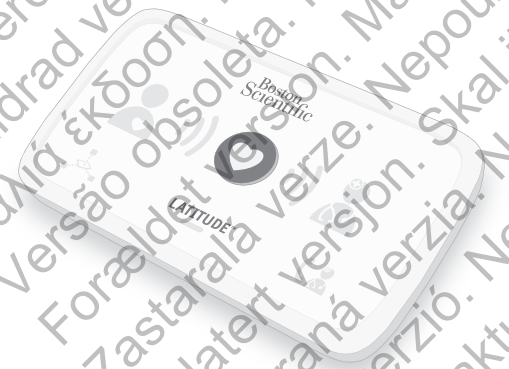
See “Returning, Replacing, or Disposing of the Communicator, USB Cellular Adapter, or USB Ethernet Adapter” on page 67.

Where can I go for more help?

Contact your health care provider.

繁體中文

LATITUDE™ 遙距監測系統



本手冊載有型號 6288* 及 6290 LATITUDE 遙距監測系統的使用指引。兩款型號的使用指引幾近完全一樣。除非指明只適用於某一型號，否則使用指引 (連技術資料) 適用於兩款型號。遙距監測系統的型號可以在底部標籤找到。

* 只在某些地區提供 6288 型號。

目錄

繁體中文

LATITUDE 病況管理系統

LATITUDE 病況管理系統 (即本手冊中的「LATITUDE 系統」) 是一個遙距監測系統，可將植入式裝置的數據在您覆診之間提供給您的醫療服務人員。LATITUDE 系統專為加強對病人的照顧同時為您帶來方便而設。

LATITUDE 系統使用先進的安全方法來保障您的個人醫療資料。只有獲授權的醫療服務人員可以透過安全的臨床醫生網站來查閱您的資料。

「LATITUDE 系統並非供緊急醫療事故之用。如果您感不適，請致電您的醫療服務人員或緊急服務。」

LATITUDE 遙距監測系統

LATITUDE 遙距監測系統是一個家用監測器，以無線通訊系統來與您的植入式裝置保持溝通。遙距監測系統並不提供持續監測。此系統可在醫療服務人員指定的時間自動讀取您的植入式裝置資訊。

在指定的時間間隔，遙距監測系統會透過下列任何三種方法之一，將您的植入式裝置資訊傳送到 LATITUDE 系統：

- 標準電話線 (請參閱頁面 104)；或
- 手提電話網絡 (請參閱頁面 106)；或
- 乙太網絡 (互聯網) (請參閱頁面 110)。

當遙距監測系統連接 LATITUDE 系統，便會定時接收從醫療服務人員所作的更新。

遙距監測系統不會自行將您的植入式裝置重新編程或更改裝置的任何功能。只有醫療服務人員才可以在您就診時作更改。

您的遙距監測系統適合在以下國家/地區使用：奧地利、比利時、捷克共和國、丹麥、芬蘭、法國、德國、希臘、香港、愛爾蘭 (共和國)、意大利、荷蘭、挪威、波蘭、葡萄牙、斯洛伐克共和國、西班牙、瑞典、瑞士和英國。如需更多資料，請參閱「旅行時攜帶您的遙距監測系統」頁面 146。

遙距監測系統的電話線 (有線固網電話) 設計適合在一般家庭的標準電話線使用。遙距監測系統支援在模擬線路作音頻撥號。遙距監測系統可以在其他電話系統使用，例如數碼線路 (DSL) 以及互聯網協議語音 (VoIP)，如果這些系統提供一個模擬線路介面以連接遙距監測系統。

使用遙距監測系統時，請依照手冊中的指引操作。將您所有遙距監測系統的資料存放在一個位置，方便日後查閱之用。

您應該接收到的物品

以下物品附隨遙距監測系統：

- 遙距監測系統本機
- 交流電 (AC) 接頭
- 遙距監測系統快速開始指引
- 遙距監測系統病人手冊 (本手冊)
- 遙距監測系統電話線
- 電話插座接頭 (選配)

以下物品為選配的連接附件，可獨立選購：

- LATITUDE NXT USB 流動數據接頭
- USB 乙太網絡接頭

可選購健康監測設備

如您的醫療服務人員訂明，您的遙距監測系統亦可以收集從 LATITUDE 心臟衰竭管理系統 (可選購) 所發送的資料。此系統包括一個 LATITUDE 體重計和 LATITUDE 血壓計。

這些特制產品提供額外的資料，以監測您的健康。請參閱隨體重計和血壓計附隨的手冊。

體重計和血壓計附送一個 USB 感應器接頭，此接頭為這些產品提供與遙距監測系統的無線連接。請參閱「連接 USB 感應器接頭」頁面 153。

臨床醫生網站

臨床醫生網站為醫療服務人員提供一個方便且安全的方式，去接收和分析病人植入式裝置的資料。

LATITUDE 系統一般在 15 分鐘之內，就會在臨床醫生網站顯示植入式裝置的資料。不過，它也可能因許多外在因素而需要更長的時間才能顯示您的資料。

這個網站提供先進的分析和趨勢，以用作改善對病人的照顧。只有您的醫生和您醫生授權的醫療人員，才能在臨床醫生網站使用密碼查閱您的醫療資料。

LATITUDE 病人支援

您的植入式裝置和 LATITUDE 遙距監測系統是由 Boston Scientific 所製的。在特定情況下，您的醫療服務人員可能指示您聯絡 Boston Scientific，以協助您使用遙距監測系統。當您依指示聯絡 Boston Scientific 時，請使用以下適合您所在地的電話號碼。

國家/地區	電話號碼
奧地利	0800 202289
比利時	0800 80697
捷克共和國	239 016 657
丹麥	70 10 01 82
芬蘭	010 80 48 19
法國	0805 5404 22
德國	069 51709 481
希臘	442 035 647 788
香港	852 8105 5433
愛爾蘭 (共和國)	1890 812005
意大利	848 781164
荷蘭	0800 0292077
挪威	81 00 00 47
波蘭	22 306 07 33
葡萄牙	800844729
斯洛伐克共和國	02 686 223 89
西班牙	901 010840
瑞典	020 160 57 07
瑞士	0844 000110
英國	0845 602 9283

何時使用您的遙距監測系統

遙距監測系統自動進行各種由您醫療服務人員所設定的功能。當遙距監測系統正面的燈亮起來或閃爍時，即表示有其他功能需要您回應。每天檢查遙距監測系統，留意指示燈是否亮起來或正在閃爍。

按照您的醫療服務人員之指示，使用遙距監測系統。遙距監測系統如果需要您按照醫療服務人員的要求，手動進行一次植入式裝置的數據讀取，系統的心臟按鈕 (圖 1 頁面 99) 將會閃爍。如果心臟按鈕正閃爍，請按下並留意遙距監測系統上的指示燈。如果呼叫醫生圖示 (圖 2 頁面 100) 亮起任何顏色，請致電您的醫療服務人員。

何時不應使用您的遙距監測系統

遙距監測系統僅為您的植入式裝置而設。它並不能用於其他病人的植入式裝置。遙距監測系統須經處方醫生授權，方可使用。遙距監測系統並不能用於 Boston Scientific 以外的植入式裝置。

如對使用遙距監測系統或植入式裝置的風險有任何問題，請向您的醫療服務人員查詢。本病人手冊亦列出有關植入式裝置之風險和可靠性的實用資料。

遙距監測系統擺放位置

擺放遙距監測系統：

- 置於一個易於連接電源插頭的位置。
- 置於一個您舒服坐著就可以看到遙距監測系統正面的位置。
- 視乎所用的通訊方法：
  - **標準電話線**：置於就近的牆上電話插座。
  - **流動數據網絡**：置於一個您能夠收到良好訊號的位置。
  - **乙太網絡 (互聯網)**：接近互聯網連接的位置。
- 接近您睡覺的地方或床邊。如不可行，請將遙距監測系統安放在您花大部份時間的位置。
- 遙距監測系統以及其所有的電線、配件都應保持乾爽，避免放在潮濕或可能接觸到水的位置。

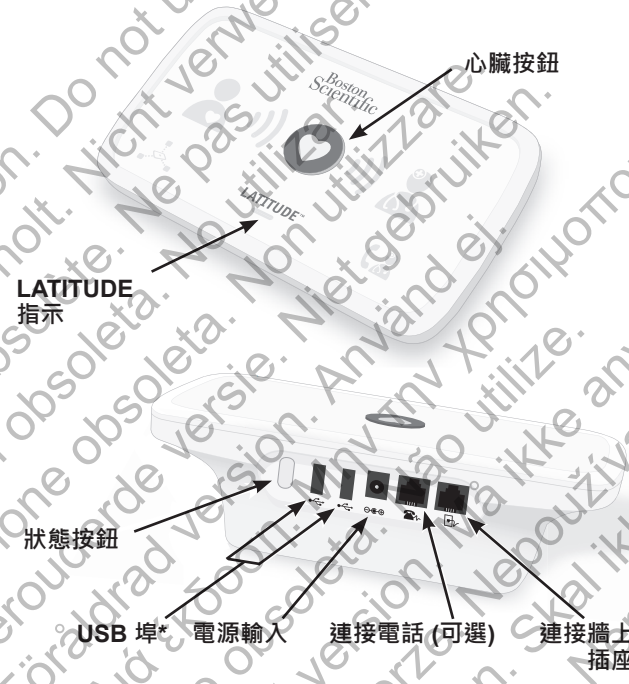
重要提示

- **請注意，遙距監測系統必須經常保持與電源插頭連接。**
- **您的遙距監測系統應連接著電話或互聯網，除非您已訂購了 LATITUDE GSM (全球流動通訊系統) 數據計劃。**
- 設定遙距監測系統時，您只可使用一種連接 (標準電話線、流動電話網絡或乙太網絡)，即使您可能有一條以上的電線或接頭亦然。
- 此設備需要依照所附隨的文件安裝和使用。如您在設定或使用遙距監測系統方面需要協助，請致電您的醫療服務人員。

- 某些家居電器和其他電磁波來源可以阻礙遙距監測系統和植入式裝置之間的無線通訊。當您使用遙距監測系統，您應至少與電視、錄影機 (VCR)、DVD 機、個人電腦和其他電子設備保持 1 米 (3 呎) 的距離。
- 電力安全：我們建議客戶在電源插頭和遙距監測系統之間安裝電湧保護器。這樣便可以避免遙距監測系統受到由雷電或其他電力湧流所造成的損害。使用之前，電源線插頭和其他配件必須保持良好狀況。
- 如果植入式裝置使用過多射頻 (RF) 的遙感勘測，Boston Scientific 人員可能會聯絡診所或病人，以給予有關遙距監測系統的位置的建議。

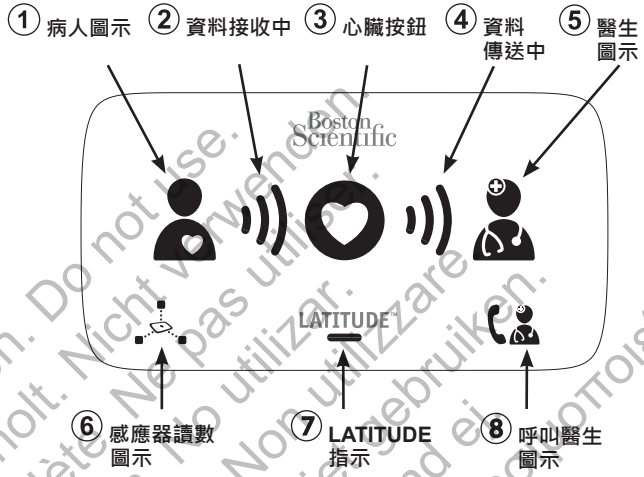
按鈕、連接器和指示燈

圖 1 及 圖 2 介紹遙距監測系統正面及背後的按鈕、連接器和指示燈。請參閱「指示燈說明」頁面 116 每一個指示燈的詳細說明。



* USB 埠用於連接 USB 感應器接頭及/或 LATITUDE NXT USB 流動數據接頭或 USB 乙太網絡接頭。

圖 1. 按鈕和連接器



1. **病人圖示**：當此燈亮起任何顏色，請靠近遙距監測系統。
2. **資料接收中**：
   綠色 = 成功接收資料。
   黃色 = 接收資料失敗。
3. **心臟按鈕**：當閃爍時按下，或按下以發送資料。
4. **資料傳送中**：
   綠色 = 成功傳送資料。
   黃色 = 資料傳送失敗。
5. **醫生圖示**：當藍燈亮起時表示資料傳送成功。
6. **感應器讀數圖示**：當亮起時表示感應器讀數接收成功。
7. **LATITUDE 指示**：
   綠色 = 遙距監測系統已啓動並在備用狀態。
   黃色 = 閃亮黃色表示啓動中或有故障。
8. **呼叫醫生圖示**：當亮起任何顏色請聯絡您的醫生。

圖 2. 指示燈

如需要更多有關指示燈的資料，請參閱「指示燈說明」頁面 116。

安裝您的遙距監測系統

確認開關設定

- 檢查清楚遙距監測系統底部數字 4-8 的白色開關設定，是否與您所在的國家開關設定相同 (圖 3)。
- 如果遙距監測系統底部的白色開關設定與下方的開關設定不相同，請如圖所示向上或向下滑動進行設定。
- 只適用於固網電話連接：如果向外部打電話前需要先行撥字首，1-3 的開關設定或許會有所不同。請參閱「為 PBX 外撥字首調較開關設定」頁面 152 其他開關設定。

繁體中文

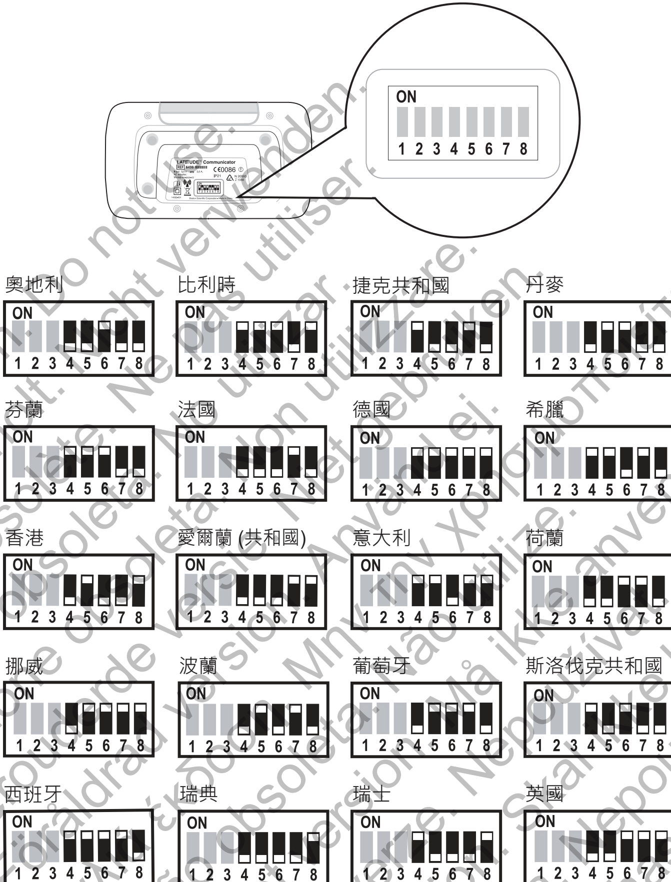

ON
1 2 3 4 5 6 7 8
奧地利
比利時
捷克共和國
丹麥
芬蘭
法國
德國
希臘
香港
愛爾蘭 (共和國)
意大利
荷蘭
挪威
波蘭
葡萄牙
斯洛伐克共和國
西班牙
瑞典
瑞士
英國

圖 3. 開關設定

將您的遙距監測系統與 LATITUDE 系統連接

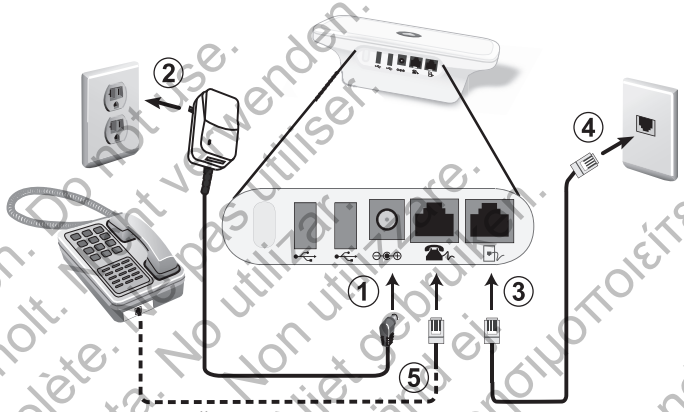
按照以下任何三種方法之一連接 LATITUDE 系統：

- **標準固網電話**：依照「使用標準固網電話插座連接」頁面 104 中的步驟操作。
- **流動數據網絡**：依照「使用 LATITUDE GSM 數據計劃」頁面 106 中的步驟操作。
- **乙太網絡 (互聯網)**：依照「使用 USB 乙太網絡接頭連接」頁面 110 中的步驟操作。

注意：在整個安裝過程中，請靠近遙距監測系統，確保您的遙距監測系統和植入式裝置有最佳的連接。

使用標準固網電話插座連接

完成以下步驟，為固網電話連接設定遙距監測系統。



5.「連接電話為非必要的。」

圖 4. 使用標準固網電話插座連接

1. 將交流電接頭 (隨附) 插進已標籤的插座 ⊖⊂⊕。
2. 將交流電接頭插進易於連接的插座。
   - LATITUDE 指示會閃黃色燈達一分鐘。
   - 所有遙距監測系統指示會亮起約一秒。
   - 如果 LATITUDE 指示沒有亮起，檢查交流電接頭的兩端是否已緊插好。檢查交流電接頭上的燈是否亮起。

3. 將遙距監測系統電話線的一端 (隨附) 插進已標籤的插座 。

4. 您或許需要使用電話插接頭 (已提供)。如您需要這樣做，請將電話線的另一端插進電話插座接頭。然後將線的另一端插進牆上的電話插座。

   注意：如您有 DSL 互聯網服務，您或許需要在牆上電話插座和遙距監測系統之間使用 DSL 過濾器。請參閱「DSL 互聯網服務」頁面 148。

5. 選項：如要在這牆上插座使用電話，您可以將您的電話插進已標籤的插座 或電話插座接頭。

   注意：您的遙距監測系統和電話共用牆上同一個電話插座。不過，它們不能同時使用。

6. 當心臟按鈕閃爍時，請按下按鈕。
   - 您遙距監測系統的資料燈號會按時序閃綠色，如下重複數分鐘「當使用心臟按鈕時的指示燈次序」頁面 114。
   - 如您早前曾經完成初始設定，心臟按鈕不會在這時閃爍。

7. 如果資料燈號如下所示長亮綠色，即表示您的遙距監測系統已經成功連接至 LATITUDE 系統。

設定完成，這時無需要進一步行動。讓您的遙距監測系統繼續連接電源。

- 如過程超過數分鐘，可能有軟件下載和安裝在進行中。請參閱「程序下載及安裝」頁面 112。
- 如果資料燈不是長亮綠色，請參閱「排除故障」頁面 123。

重要事項：您的遙距監測系統應保持連接電源和電話插座。

使用 LATITUDE GSM 數據計劃

如果您有使用 LATITUDE GSM 數據計劃，則無須連接電話線或乙太網絡線。

- 「型號 6288」已內置流動電話通訊功能，讓您的遙距監測系統可以與 LATITUDE 系統聯繫。「型號 6288」無須額外的設備來連接。
- 「型號 6290」使用 USB 流動數據接頭來連接您的遙距監測系統與 LATITUDE 系統。如您訂購使用數據計劃，就會獲提供一個 USB 流動數據接頭。此 USB 必須用來連接遙距監測系統。以下說明只用於「型號 6290」。

請參閱「LATITUDE GSM 數據計劃」頁面 140 以獲取更多資料。

USB 流動數據接頭的擺放位置

重要事項：您的 USB 流動數據接頭和植入式裝置應保持 15 厘米 (6 英吋) 的距離。

將您的 USB 流動數據接頭放在：

- 遠離其他電子產品或金屬表面。
- 在您的遙距監測系統旁邊，而不是在它的上面或下面。

「如何設定您的 USB 流動數據接頭」

完成以下步驟，以設定您的遙距監測系統作流動數據網絡連接。

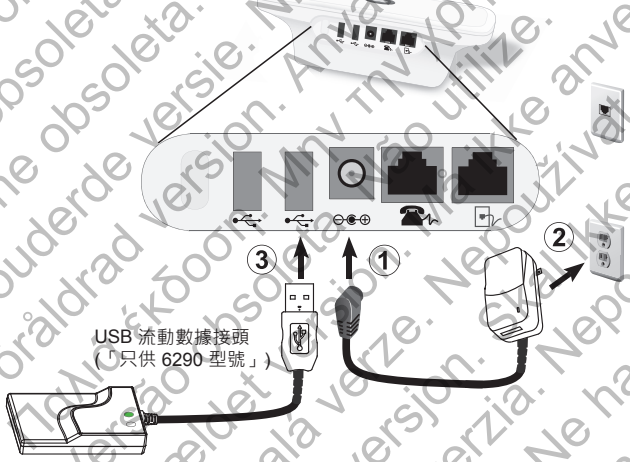


圖 5. 使用 LATITUDE GSM 數據計劃

1. 將交流電接頭 (隨附) 插進已標籤的插座 ⊖⊖⊕。

2. 將交流電接頭插進易於連接的插座。
   - LATITUDE 指示會閃黃色燈達一分鐘。
   - 所有遙距監測系統指示會亮起約一秒。
   - 如果 LATITUDE 指示沒有亮起，檢查交流電接頭的兩端是否已緊插好。檢查交流電接頭上的燈是否亮起。

3. 「只供 6290 型號」：將流動網絡接頭的 USB 接頭插入標有 •⇐ 的其中一個 USB 埠。請參閱「圖 5. 使用 LATITUDE GSM 數據計劃」頁面 107。
   - 檢查流動網絡接頭上的電源燈 ⏻ 是否亮起，確保 USB 流動網絡接頭已經妥善連接。電源燈會一直亮著，除非 LATITUDE 系統重新啟動。

   注意：USB 流動網絡接頭上的無線指示燈 ▼ 會在不定的時間和次序閃亮。這個指示燈在正常操作期間沒有重要性。

4. 當心臟按鈕閃爍時，請按下按鈕。
   - 您遙距監測系統的資料燈號會按時序閃綠色，如下重複數分鐘「當使用心臟按鈕時的指示燈次序」頁面 114。
   - 如您早前曾經完成初始設定，心臟按鈕不會在這時閃爍。

5. 如果資料燈號如下所示長亮綠色，即表示您的遙距監測系統已經成功連接至 LATITUDE 系統。

設定完成，這時無需要進一步行動。讓您的遙距監測系統繼續連接電源。
   - 如過程超過數分鐘，可能有軟件下載和安裝在進行中。請參閱「程序下載及安裝」頁面 112。
   - 如果資料燈不是長亮綠色，請參閱「排除故障」頁面 123。

重要事項：您的遙距監測系統應當保持連接電源和 USB 流動數據接頭。

使用 USB 乙太網絡接頭連接

聯絡您的醫療服務人員，以獲取新的 USB 乙太網絡接頭，或作更換。

完成以下步驟，以設定遙距監測系統使用乙太網絡連接。

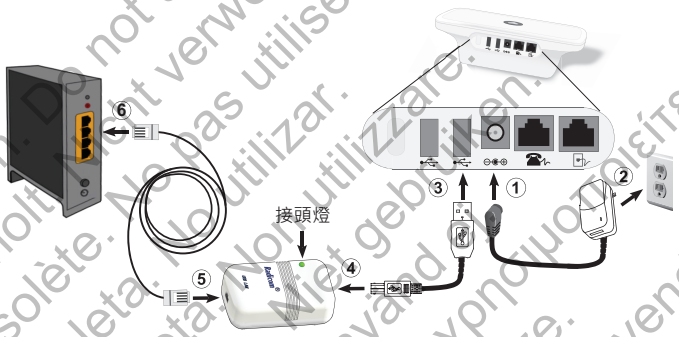


圖 6. 使用 USB 乙太網絡接頭連接

1. 將交流電接頭 (隨附) 插進已標籤的插座 ⊖⊂⊕。
2. 將交流電接頭插進易於連接的插座。
   - LATITUDE 指示會閃黃色燈達一分鐘。
   - 所有遙距監測系統指示會亮起約一秒。
   - 如果 LATITUDE 指示沒有亮起，檢查交流電接頭的兩端是否已緊插好。檢查交流電接頭上的燈是否亮起。

重要事項：按照以下步驟，確保您使用附隨 USB 乙太網絡接頭的乙太網絡電線，而非附隨遙距監測系統的電話線。

3. 將 USB 電線 (附隨 USB 乙太網絡接頭) 窄的一端插進遙距監測系統上其中一個標籤了 ⇐ 的 USB 埠。
4. 將 USB 電線正方形的一端插進 USB 乙太網絡接頭最近接頭燈的一端。
5. 將乙太網絡電線 (附隨 USB 乙太網絡接頭) 插入接頭的另一端。
6. 將乙太網絡電線插進乙太網絡埠，以連接互聯網服務，例如數據機、路由器或牆上的乙太網絡插座。
   - 檢查 USB 乙太網絡接頭正面的綠色燈是亮起 (長著或閃爍)，以確保 USB 乙太網絡接頭已妥善連接。
7. 當心臟按鈕閃爍時，請按下按鈕。
   - 遙距監測系統的資料燈號會按時序閃綠色，並重複數分鐘，請參照「當使用心臟按鈕時的指示燈次序」頁面 114。
   - 如您早前曾經完成初始設定，心臟按鈕不會在這時閃爍。
8. 如果資料燈號如下所示長亮綠色，即表示您的遙距監測系統已經成功連接至 LATITUDE 系統。

設定完成，這時無需要進一步行動。讓您的遙距監測系統繼續連接電源。

- 如過程超過數分鐘，可能有軟件下載和安裝在進行中。請參閱「程序下載及安裝」頁面 112。
- 如果資料燈不是長亮綠色，請參閱「排除故障」頁面 123。

重要事項：您的遙距監測系統應保持連接電源和互聯網服務。

程序下載及安裝

更新軟件會定時被下載及傳送到您的遙距監測系統，以供安裝。

遙距監測系統初始設定期間：如果正有軟件更新在等待，請按下心臟按鈕以啓動軟件下載及安裝，過程可能需時數分鐘。等候心臟按鈕再次閃爍，然後再按下按鈕。按您所使用的連接方式，依從餘下的設定步驟。

正常使用期間，您的遙距監測系統已經設定好：軟件下載及安裝可能在您不知情的情況下進行。

遙距監測系統的正常操作

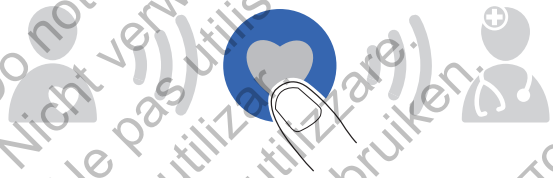
您的遙距監測系統每天進行檢查，在正常操作下，只有 LATITUDE 指示會亮綠色。而且，遙距監測系統會依您醫療服務人員定下的時間，自動從您的植入式裝置讀取數據。所有遙距監測系統的指示燈，都不會在定時的數據讀取或每天的裝置檢查期間亮起來。當您如所述使用心臟按鈕時，「從您的植入式裝置讀取數據」頁面 142 或者如所述使用狀態按鈕時，它們才會亮起來。「檢查遙距監測系統是否能連接至 LATITUDE 系統」頁面 144。

> **注意**：在這手冊中使用顏色來說明遙距監測系統的操作時，如指示燈呈灰色，即表示它沒有亮起來。如指示燈呈其他顏色，包括白色，即表示它亮起來。
>
> (在藍色的圓圈內有一個灰色的心，這正代表它沒有亮起來。在藍色的圓圈內有一個白色的心，即代表它亮了起來。)

總括而言，如果 LATITUDE 指示亮起綠色，您的遙距監測系統即操作正常。

當使用心臟按鈕時的指示燈次序

這節將說明，當您按下心臟按鈕後，指示燈會如何亮起。遙距監測系統讀取您的植入式裝置後，便會將您的資料傳送至 LATITUDE 系統。更多有關指示燈的顏色和用途，將會在這手冊後部列明。

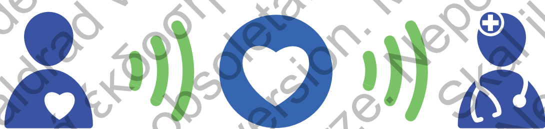


按下心臟按鈕後，遙距監測系統便開始讀取植入式裝置的數據。

病人圖示亮起藍色。資料接收中按次序重複閃爍綠色，而遙距監測系統亦會同時讀取您裝置的數據。

三個代表「資料接收中」的燈會全部亮起綠色。當心臟按鈕指示長亮白時，即表示成功讀取數據。

當遙距監測系統致電並開始將您的資料傳送至 LATITUDE 系統時，代表「資料傳送中」的燈會按次序重複亮綠色。



當醫生圖示亮藍色，即表示遙距監測系統已成功將您的資料傳送至 LATITUDE 系統。所有指示燈會如所示亮起 2 分鐘，以表示整個過程成功。

指示燈說明

在下列情況，指示燈會亮起來以顯示遙距監測系統的進度：

- 手動讀取您植入式裝置的數據
- 手動連接並將您植入式裝置的數據傳送至 LATITUDE 系統
- 由指定的體重計或血壓計讀取數據

一個或多個指示燈亮起或閃爍不同的顏色，即表示需要採取某種行動。請參閱「排除故障」頁面 123。

病人圖示

表示遙距監測系統正在讀取 (收集) 您植入式裝置的數據。

- 當心臟按鈕按下並開始數據讀取時，便會長亮藍色。
- 成功讀取數據後，指示燈便會長亮藍色 2 分鐘。

資料接收中

表示遙距監測系統正從您植入式裝置收集數據。

- 按次序重複閃亮綠色，即表示遙距監測系統正在讀取您植入式裝置的數據。
- 長亮綠色維持 2 分鐘，即表示成功讀取數據。

心臟按鈕

- 當閃爍白燈時，即表示您需要完成早前定下的數據讀取。按心臟按鈕以完成。
- 當長亮白燈維持 2分鐘時，即表示數據讀取已完成。注意長亮白燈可能顯得暗淡。
- 可以用作手動來發起植入式裝置的數據讀取。使用此按鈕前，請參閱「從您的植入式裝置讀取數據」頁面 142。

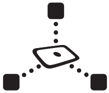
資料傳送中

表示遙距監測系統正連接 LATITUDE 系統。

- 依次序重複閃綠色，即表示正在連接至 LATITUDE 系統中。
- 亮綠色維持 2 分鐘，即表示成功連接 LATITUDE 系統並已發送所收集的數據。

醫生圖示

亮藍色維持 2 分鐘，即表示遙距監測系統成功連接 LATITUDE 系統。遙距監測系統將從您植入式裝置、體重計和血壓計所收集的數據發送出去。



感應器讀數圖示

顯示遙距監測系統已成功與所訂的體重計和血壓計建立連線。

- 閃爍綠色 5 次並長亮綠色 5 分鐘，即表示遙距監測系統成功接收體重計和血壓計的讀數。

LATITUDE 指示

表示遙距監測系統連接電源。它的指示亦代表遙距監測系統已啓動或可以使用。

- 亮綠色即表示遙距監測系統已連接電源並可以使用。
- 啓動過程期間閃爍黃色。
- 可能會長時間閃爍黃色。這表示有新的軟件正在安裝。

繁體中文

呼叫醫生圖示

亮黃或紅色 (閃爍或長亮)，即表示有問題；因此您應當向您的醫療服務人員報告。指在「排除故障」頁面 123 有故障。

紅色比黃色有更高的嚴重性。如果各種顏色都同時有故障，只會亮起紅色。

- 當遙距監測系統插進交流電源時，會短暫閃爍黃色。
- 當遙距監測系統完成啓動過程後，燈號會熄滅。
- 如果啓動過程未完成，它會長亮黃色。

繁體中文

狀態按鈕

狀態按鈕如圖 7 所示，可以在遙距監測系統的底部找到。

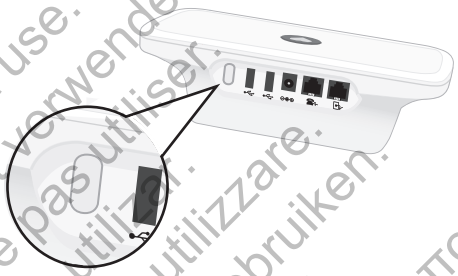


圖 7. 狀態按鈕

狀態按鈕會依據按下的時間長短，作出以下其中一種動作：

- **按下少於 3 秒**：遙距監測系統的指示燈會亮起來顯示：
  - 上次讀取數據時的狀態。
  - 上次連接 LATITUDE 系統時的狀態。

  指示燈會亮起 2 分鐘。如果呼叫醫生圖示閃爍，它會停止閃爍然後變成長亮。
- **按下並維持超過 3 秒**：如果遙距監測系統已連接至 LATITUDE 系統時，資料傳送中的指示燈會依次重複閃爍綠色。

注意：如您剛按下心臟按鈕，狀態按鈕不會運作直至讀取數據完成或被取消。

確認操作成功

您可以使用狀態按鈕來檢查遙距監測系統是否運作正常。以上圖像表示所有接收中和傳送中的燈都亮起綠色，並確認上次數據讀取和連接至 LATITUDE 系統成功。當所有燈亮起綠色，無須採取任何行動。

排除故障

排除故障圖示和 LATITUDE 指示故障

如遙距監測系統前面的一個或多個指示燈亮起或閃爍，即表示遙距監測系統、通訊或 LATITUDE 系統有某些故障。一般類型的故障說明如下圖 8。這一節列出每種故障的說明，以及有關解決各種故障的建議。

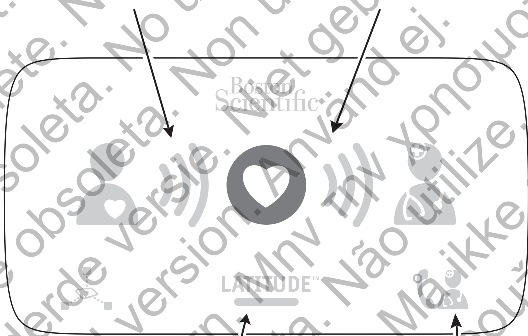


圖 8. 故障類型

繁體中文

心臟按鈕正在閃爍
LATITUDE 指示燈為綠色

說明： 您需要完成早前定下的數據讀取。

行動：
- 按下心臟按鈕來完成數據讀取。
- 如果心臟按鈕長亮白色，即表示數據讀取成功。無須進行任何行動。

沒有指示燈亮起

說明： 沒有指示燈亮起。

遙距監測系統並沒有連接電源或沒有運作。

行動：
- 如果 LATITUDE 指示沒有亮起，檢查交流電接頭的兩端是否已緊插好。
- 檢查交流電接頭上的燈是否亮起。
- 如果遙距監測系統插進了電源並且交流電接頭上的燈已亮，請聯絡您的醫療服務人員。

繁體中文

LATITUDE 指示燈閃黃色
沒有其他指示燈亮起

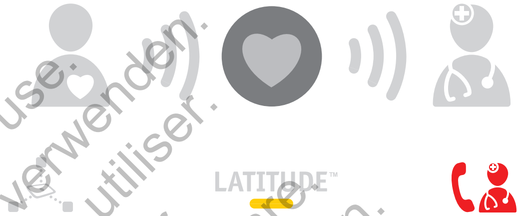
說明： LATITUDE 指示燈閃黃色。

遙距監測系統正在啓動或下載及安裝軟件。

這過程一般只持續1分鐘也可能長達 10分鐘。

行動：
- 除非 LATITUDE 指示燈閃爍長於 10 分鐘，否則無須採取任何行動。在這種情況下，請聯絡您的醫療服務人員。

呼叫醫生圖示亮紅色
LATITUDE 指示燈亮黃色



說明： 呼叫醫生圖示亮紅色 (閃爍或長亮) 並且 LATITUDE 指示燈亮黃色。

您的植入式裝置被偵測到一個潛在問題，但遙距監測系統不能將從植入式裝置所收集得來的數據傳送至 LATITUDE 系統。

呼叫醫生圖示和 LATITUDE 指示燈會如下所示，長亮直至問題解決。

行動： 您必須立刻回應。致電您的醫療服務人員。

繁體中文

呼叫醫生圖示亮黃色
LATITUDE 指示燈亮黃色

說明： 呼叫醫生圖示亮黃色 (閃爍或長亮) 並且 LATITUDE 指示燈亮黃色。

表示發生了以下其中一種故障：

- 您的遙距監測系統現時未能監測您的植入式裝置。
- 植入式裝置的監測透過 LATITUDE 系統暫停。

呼叫醫生圖示和 LATITUDE 指示燈會長亮黃色直至問題解決。

行動： 致電您的醫療服務人員。

呼叫醫生圖示亮黃色
LATITUDE 指示燈沒有亮

說明： 呼叫醫生圖示長亮黃色並且 LATITUDE 指示燈沒有亮，即表示您的遙距監測系統可能未有正常運作。

行動： 您可能需要更換遙距監測系統。致電您的醫療服務人員。

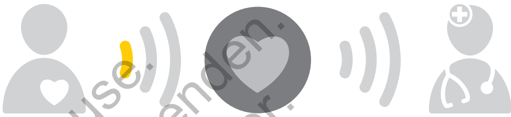
排除黃色資料指示燈故障

如一個或多個資料指示燈亮黃色，即表示如以下資料章節中所述，發生了某種故障。除非故障能早些解除，資料指示燈會亮黃色超過 60 分鐘。60 分鐘後，所有資料指示燈會熄滅而 LATITUDE 指示燈會亮綠色，即使故障仍未解除亦然。

如果故障在您採取以下章節的步驟後仍然未解決，請致電您的醫療服務人員。

注意：除了資料指示燈亮黃色以表示有故障外，LATITUDE 指示燈也會同時亮黃色。

資料接收中: 亮起一個黃色燈



說明： 遙距監測系統未能讀取您植入式裝置的數據，或植入式裝置在被讀取時超出範圍。

行動：

- 確保遙距監測系統如「遙距監測系統擺放位置」頁面 97 所示放置在最佳位置。
- 面向遙距監測系統。坐在遙距監測系統前面。確保您坐在遙距監測系統 3 米 (10 呎) 之內。
- 將遙距監測系統 1 米 (3 呎) 之內的無線電子產品 (如室內無線電話、流動網絡電話或嬰兒監視器) 移開。

檢查是否已成功排除了故障：

- 按下心臟按鈕以啓動另一次數據讀取。如果數據讀取成功，三個資料接收中的燈會全部亮綠色並維持 2 分鐘。

繁體中文

資料接收中: 亮起兩個黃色燈

說明： 遙距監測系統啓動但未能在時限內完成數據讀取。

行動：

- 確保遙距監測系統如「遙距監測系統擺放位置」頁面 97 所示放置在最佳位置。
- 面向遙距監測系統。坐在遙距監測系統前面。確保您坐在遙距監測系統 3 米 (10 呎) 之內。
- 靜坐直至數據讀取完成。不要離開遙距監測系統。
- 將遙距監測系統 1 米 (3 呎) 之內的無線電子產品 (如室內無線電話、流動網絡電話或嬰兒監視器) 移開。

檢查是否已成功排除了故障：

- 按下心臟按鈕以啓動另一次數據讀取。如果數據讀取成功，三個資料接收中的燈會全部亮綠色並維持 2 分鐘。

資料接收中: 亮起三個黃色燈

說明： 以下任何原因都可能導致此故障：

- 您或許已經超出您每週的數據讀取限額，或您沒有獲許使用心臟按鈕。
- 由於受到另一個人的植入式裝置干擾，您的遙距監測系統未能與您的植入式裝置建立無線通訊。

行動：

- 如要讀取您裝置的數據，請等待 10 分鐘，然後再次按下心臟按鈕，以開始讀取數據。
- 請不要在讀取數據期間按下心臟按鈕，除非您要停止讀取數據。
- 如果您在按下心臟按鈕後看到三個黃色燈亮起，請聯絡您的醫療服務人員。

資料傳送中: 亮起一個黃色燈

說明： 遙距監測系統未能與 LATITUDE 系統連接，其中原因如下：

- 當嘗試使用電話線時，偵測到沒有撥號音。
- 當嘗試使用 LATITUDE GSM 數據計劃來連接時，沒有偵測到流動電話網絡。
- 當嘗試使用 USB 乙太網絡接頭來連接時，沒有偵測到乙太網絡連接。

行動： 如使用固網電話線：

- 檢查附隨遙距監測系統提供的電話線，是否已穩妥地連接牆上電話插座及遙距監測系統。
- 拿起電話聽筒，檢查是否有撥號音。如果沒有撥號音，嘗試使用另一個牆上電話插座。

- 如您有 DSL 互聯網服務，請確保在牆上電話插座和遙距監測系統之間使用 DSL 過濾器。
- 檢查模擬電話線服務是否支援音頻撥號模式。

如果您使用 LATITUDE GSM 數據計劃：

- 如您沒有啓動 LATITUDE GSM 數據計劃，請參閱頁面 140。
- 確保 USB 流動數據接頭已插進遙距監測系統。
- 將遙距監測系統搬到另一個有更佳流動電話網絡接收的地方。
- 如果其他的地方也無效，請嘗試將遙距監測系統插進一個可用的牆上電話插座。

如果您使用 USB 乙太網絡接頭：

- 請確保使用附隨 USB 乙太網絡接頭所提供的 USB 電線，來連接 USB 乙太網絡接頭和遙距監測系統。
- 請確保使用 USB 乙太網絡接頭所提供的乙太網絡電線，來連接 USB 乙太網絡接頭和您互聯網服務的乙太網絡埠。
- 如果 USB 乙太網絡接頭正面的綠燈不亮，請確保您的互聯網數據機或路由器已經啓動了。

檢查是否已成功排除了故障：

- 一直按下狀態按鈕，直至資料傳送中的燈依次重複閃爍綠色。如果連接成功，三個資料傳送中的燈會全亮綠色 2 分鐘。

資料傳送中: 亮起兩個黃色燈

說明： 由於固網電話線、流動電話網絡或乙太網絡等連接的問題，嘗試連接 LATITUDE 系統失敗。

如果使用固網電話線，或許有另一裝置 (電話、應答機或電腦) 正在或嘗試使用電話線。

行動： 如使用固網電話線：

- 確保您的電話在這時候並不是使用中。
- 拿起電話聽筒，檢查是否有撥號音。如果沒有撥號音，嘗試使用另一個牆上電話插座。
- 將遙距監測系統與牆上電話插座之間的分離器移除。
- 如您有 DSL 互聯網服務，請確保在牆上電話插座和遙距監測系統之間使用 DSL 過濾器。

- 檢查遙距監測系統底部的開關是否已按您的所在國家/地區及外撥字首要求妥善設定。請參閱「確認開關設定」頁面 101。

如果您使用 LATITUDE GSM 數據計劃：

- 如您沒有啓動 LATITUDE GSM 數據計劃，請參閱頁面 140。
- 將遙距監測系統搬到另一個有更強流動電話網絡訊號的地方。
- 如果其他的地方也無效，請嘗試將遙距監測系統插進一個可用的牆上電話插座。

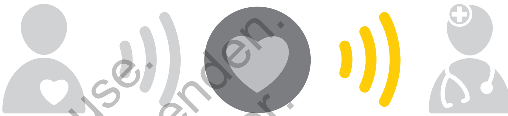
如果您使用 USB 乙太網絡接頭：

- 請確保使用 USB 乙太網絡接頭所提供的乙太網絡電線，來連接乙太網絡埠和互聯網服務。

檢查是否已成功排除了故障：

- 一直按下狀態按鈕，直至資料傳送中的燈依次重複閃爍綠色。如果連接成功，三個資料傳送中的燈會全亮綠色 2 分鐘。

資料傳送中: 亮起三個黃色燈



說明： 遙距監測系統能成功連接，但資料不能送到 LATITUDE 系統。

行動：

- 檢查遙距監測系統底部的開關是否已按您的所在國家/地區及外撥字首要求妥善設定。請參閱「確認開關設定」頁面 101。

如果您使用 USB 乙太網絡接頭：

- 確保其他連接互聯網數據機或路由器的電腦或裝置能夠連線至互聯網。

檢查是否已成功排除了故障：

- 一直按下狀態按鈕，直至資料傳送中亮綠色燈並顯示進度。
- 如果您在嘗試以上行動後見到資料傳送中的三個黃色燈亮起，遙距監測系統可能未有在 LATITUDE 系統中設定正確。致電您的醫療服務人員。

LATITUDE GSM 數據計劃

LATITUDE GSM 數據計劃使用流動數據網絡，而非標準固網電話連接來將植入式裝置的資料傳送至 LATITUDE 系統。LATITUDE GSM 數據計劃是一項選購的訂購服務，它必須在您使用遙距監測系統前啓動。

「型號 6288」無須額外設備來連接遙距監測系統和 LATITUDE 系統。

「型號 6290」：您訂購了服務後，您便會收到一個 USB 流動數據接頭，讓遙距監測系統和 LATITUDE 系統建立流動通訊。

LATITUDE GSM 數據計劃只使用數據網絡。它不會傳送話音，也不能與您的流動電話服務一起使用。

注意：您的遙距監測系統設計是使用乙太網絡連接 (如有)；或如果插進了可用的電話插座，則可使用固網電話連接。如果連接起來，遙距監測系統會將植入式裝置的資料透過乙太網絡或固網電話連接傳送，儘管您已訂購了 LATITUDE GSM 數據計劃。

流動電話轉換器

或許您從上一個遙距監測系統中，已獲取了一個 Multi-Tech Systems MultiConnect™ MT200A2W 模擬無線流動電話轉換器。您的 LATITUDE 遙距監測系統可以使用 Multi-Tech Systems MultiConnect™ MT200A2W 模擬無線流動電話轉換器，來連接流動電話網絡。MultiConnect Converter 已經過測試，並證實與 LATITUDE 遙距監測系統兼容。使用轉換器不是必要的。

啓動 LATITUDE GSM 數據計劃

如果您沒有標準固網電話線或您現時的電話服務並不完全兼容，請聯絡您的醫療服務人員看看 LATITUDE GSM 數據計劃是否已啓動。

「型號 6288」：啓動了的計劃只適用於您的遙距監測系統。如果遙距監測系統需要更換，或您需要更新的訂購服務，請聯絡您的醫療服務人員。

「型號 6290」：啓動了的計劃只適用於您的 LATITUDE NXT USB 流動數據接頭。如果接頭需要更換，或您需要更新訂購服務，請聯絡您的醫療服務人員。

當 LATITUDE GSM 數據計劃啓動了，您便可以透過以下步驟確認連接「檢查遙距監測系統是否能連接至 LATITUDE 系統」頁面 144。如您與遙距監測系統搬到另一位置，請從該位置檢查連接。

故障排除及支援

訂購 LATITUDE GSM 數據計劃並不保証覆蓋範圍。真正覆蓋範圍可能會受到地形、氣候、植物、建築和其他建築物、訊號強度、客戶設備及其他因素等影響。

如果您的遙距監測系統未能透過 LATITUDE GSM 數據計劃啓動連接，資料傳送中燈會亮黃色。如發生這情況，請透過頁面 134 至頁面 139 參閱此手冊中的「資料傳送中」章節。如果遙距監測系統未能連接，請聯絡您的醫療服務人員以尋求協助。

如果您的遙距監測系統未能透過 LATITUDE GSM 數據計劃連接至 LATITUDE 系統，請嘗試將遙距監測系統插進可用的電話線插座。

終止您的 LATITUDE GSM 數據計劃

請聯絡您的醫療服務人員，以終止 LATITUDE GSM 數據計劃。

從您的植入式裝置讀取數據

遙距監測系統會依您醫療服務人員定下的時間，自動從您的植入式裝置讀取數據。這可能會在您不知情下發生，您亦無需採取任何行動。裝置會每天自行檢查。所有遙距監測系統的指示燈，都不會在定時的數據讀取或每天的裝置檢查期間亮起來。

如果您在遙距監測系統範圍以外 (3 米或 10 英呎)，當它嘗試與您植入式裝置通訊時，數據讀取未必能完成。如果遙距監測系統在數次嘗試後仍未能自動從您植入式裝置讀取數據，心臟按鈕會閃爍並讓您進行手動數據讀取。心臟按鈕在您首次使用遙距監測系統也會閃爍。

心臟按鈕的設計，可讓您手動讀取植入式裝置的數據。手動進行數據讀取功能必須由您的醫療服務人員啓用。按下心臟按鈕後，遙距監測系統便會進行檢查，以確保數據讀取為容許的。您只應在數據讀取閃爍時或由您的醫療服務人員指示下，才使用心臟按鈕。

如果您不小心按下心臟按鈕 (而非意圖進行數據讀取)，請再按下心臟按鈕並維持至少 5 秒以取消數據讀取。當數據讀取被取消，資料接收中會亮黃色及顯示進度。

當使用心臟按鈕時，您應當在整個數據讀取期間，靠近遙距監測系統，確保遙距監測系統和植入式裝置有最佳通訊。

如果手動數據讀取已超限額或因為該功能沒有啓用而不獲許，遙距監測系統會自動呼叫 LATITUDE 系統。這樣做，是為了檢查手動數據讀取次數是否有所改變，或該功能是否有重新被啓用。

注意：

- 植入式裝置電池的設計使用壽命，已將 LATITUDE 系統的正常使用計算在內。使用心臟按鈕過於頻繁 (高於心臟按鈕閃爍頻率，或高於醫療服務人員指示的頻率)，會導致植入式裝置的電池壽命衰減。
- 如果您感覺不適或需要緊急醫療服務，請致電您的醫療服務人員或緊急服務。

電力中斷

萬一電力中斷或交流電接頭除掉時，遙距監測系統也有內置記憶體貯存數據讀取及其他資料。當遙距監測系統電力恢復時，LATITUDE 指示燈會變回綠色。

檢查遙距監測系統是否能連接至 LATITUDE 系統

完成以下步驟，以確定遙距監測系統能連接至 LATITUDE 系統。當您搬動遙距監測系統、您的電話服務或 LATITUDE GSM 數據計劃訂購有所變更時，您亦應這樣做。

1. 檢查遙距監測系統是否插上電源，以及 LATITUDE 指示燈是否亮綠色。

2. 按住遙距監測系統背後的狀態按鈕，並維持超過 3 秒。當遙距監測系統嘗試連接至 LATITUDE 系統時，資料傳送中指示會按次序重複亮綠色。

   如果資料接收中和資料傳送中同時亮起，即表示您按下狀態按鈕的時間未夠長。一直按住狀態按鈕並維持超過 3 秒，可顯示上次數據讀取的狀態和上次嘗試連接 LATITUDE 系統的狀態。

3. 觀察遙距監測系統的正方。資料傳送中指示會按次序重複亮綠色，以顯示連接至 LATITUDE 系統正在進行。

4. 等候數分鐘讓連接完成。

5. **如果連接成功**，三個資料傳送中指示會全亮綠色 2 分鐘。

   如果連接不成功，一個或多個資料傳送中指示會亮黃色。請參閱章節「排除黃色資料指示燈故障」中以頁面 130 開始的合適條件採取行動。

繁體中文

旅行時攜帶您的遙距監測系統

如果您需要長時間待在外地，您亦可以使用您的遙距監測系統。如打算往外地一段長時間，您可向醫療服務人員查詢您是否應帶備您的遙距監測系統。您的醫療服務人員可能需要臨時更改您數據讀取的時間，又或者當您要往外國，他們會向您提供資料以連接 LATITUDE 系統。

LATITUDE 遙距監測系統適合在以下國家/地區使用：奧地利、比利時、捷克共和國、丹麥、芬蘭、法國、德國、希臘、香港、愛爾蘭 (共和國)、意大利、荷蘭、挪威、波蘭、葡萄牙、斯洛伐克共和國、西班牙、瑞典、瑞士和英國。

如您使用 LATITUDE GSM 數據計劃或乙太網絡接頭，遙距監測系統可以在歐洲經濟區 (EEA) 國家/地區使用。當您離開歐洲經濟區 (EEA) 國家/地區，由遙距監測系統所傳送的資料會受到該國家/地區的法律所管轄，該國家的法律可能提供比您原來國家較少的私隱保障。有關資料私隱的特定資訊，請聯絡您的醫療服務人員。

「只供 6288 型號」：由於射頻法律，歐洲經濟區 (EEA) 國家/地區以外可能禁止使用遙距監測系統。

如果您要攜帶遙距監測系統，請檢查它是否可以連接至 LATITUDE 系統。請參閱「檢查遙距監測系統是否能連接至 LATITUDE 系統」頁面 144。

遙距監測系統使用電話線系統 (只供固網電話)

當有需要傳送資料至 LATITUDE 系統時，遙距監測系統會使用電話線。這些電話通訊一般長約 5 分鐘。

遙距監測系統只能往外打電話，而不能接收電話。遙距監測系統的設計只在標準固網電話上使用，如在一般家庭中，並且支援在模擬線路上作音頻撥號。遙距監測系統可以在其他電話系統上使用，例如 DSL 及 VoIP，前提是這些系統提供模擬介面以連接遙距監測系統。遙距監測系統不應連接到數碼電話介面，例如一般在企業、酒店及管理式醫療機構 (養老院、技術性護理機構和康復中心) 等地所提供的電話。

如您有其他電話設備 (包括傳真機、電話錄音機或電腦數據機) 連接至同一條電話線並且該電話線正在使用中，遙距監測系統會等候遲一些再打電話。如果電話線使用頻繁以致遙距監測系統延遲或未能打出或完成電話通訊，您或許應該安裝另一條電話線。

雖然遙距監測系統和電話共用同一個電話插座，可是它們不能同一時間使用。當您拿起電話不久，遙距監測系統就會放棄對電話線的控制，前提是電話線符合頁面 154 所列的規格。

當你在遙距監測系統使用電話通訊期間使用電話

當遙距監測系統在使用電話通訊時您拿起電話，請先放回聽筒，等 3 秒或以上，然後再拿起聽筒。遙距監測系統會中斷通訊，而撥號音亦會恢復。

如果遙距監測系統沒有中斷通訊和恢復撥號音，請放回聽筒。將遙距監測系統從電源拔開，然後您便可以使用電話。使用完電話後，請將遙距監測系統的電源再次接上。

遙距監測系統會稍後再嘗試連接。

DSL 互聯網服務

只有當您使用固網電話插座連接 LATITUDE 系統，本節才適用。

如果您透過電話線使用 DSL 互聯網服務，您可能需要在牆上的電話插座和 LATITUDE 遙距監測系統之間安裝 DSL 過濾器。

大部份的 DSL 過濾器是細小的長方形裝置，在兩端有標準的電話插頭。這些過濾器一般由 DSL 互聯網服務供應商提供，以連接電話線至電話、電話錄音機或傳真機。

如果您在這些裝置使用 DSL 過濾器，您便需要安裝 DSL 過濾器來使用遙距監測系統。如果您使用雙埠 DSL 過濾器，請將遙距監測系統連接至標籤了 PHONE 的埠，或是您一般連接電話的地方。如需協助，請聯絡您的 DSL 互聯網服務供應商或醫療服務人員。

維護與保養

您的遙距監測系統並不需要定期維修服務。

在安裝後或定期維修期間，您的遙距監測系統並不需要進行電力安全測試。

請依照下列指示，好好保護遙距監測系統或其配件以免損壞，以確保系統有最佳效能：

注意：

- 不要把遙距監測系統及其配件跌落或錯誤操作，以致損壞。
- 避免讓液體沾在本機上，除非按建議作清潔用途。不要用粗磨的布料或溶劑來清潔本機。
- 不要把遙距監測系統或其配件浸沒於液體中。
- 不要嘗試打開遙距監測系統或其任何配件。
- 依照本手冊的指引使用本機。只使用授權的零件和配件。不要嘗試更改本機或配件。

如果遙距監測系統或配件損壞了或不能正常操作，請聯絡您的醫療服務人員。

清潔遙距監測系統及配件

如有需要可以用柔軟、乾淨、不起毛的布蘸水或中性清潔劑，來清潔遙距監測系統及其配件。請注意，某些類型的家具面漆或許會因長期接觸遙距監測系統底部所使用的橡膠材料，而受到影響。

注意：

- 不要使用其他清潔液體。它們會損壞遙距監測系統正面的鏡片。不要直接把清潔液體噴在遙距監測系統正面的鏡片上。鏡片或心臟按鈕不能積存水氣。
- 避免在遙距監測系統背部的電源頭附近使用任何清潔液體。

回收、更換或棄置遙距監測系統、USB 流動數據接頭和 USB 乙太網絡接頭

如果您因為遙距監測系統、USB 流動數據接頭或 USB 乙太網絡接頭損壞或不能使用而需要更換，又或您需要另一個型號，請聯絡您的醫療服務人員，了解如何回收及更換。

如果您已經不需要使用您的遙距監測系統、USB 流動數據接頭或 USB 乙太網絡接頭，請聯絡您的醫療服務人員以了解如何回收。

您的遙距監測系統可能載有已加密的健康資料。請依據上述指示將其棄置。

為 PBX 外撥字首調較開關設定

(本節只適用於固網電話連接。) 您可以在管理式醫療設備、酒店或其他需要外撥字首才能往外致電的 PBX 使用遙距監測系統。在遙距監測系統底部的頭三個白色開關設定 (1、2 及 3) 必須配合外撥字首設定。如果使用 USB 流動數據接頭或 USB 乙太網絡接頭，則開關設定 1-3 並無用途。

各種不同外撥字首的開關設定如圖 9 所述。請參閱「確認開關設定」頁面 101，了解開關設定 4-8 的資訊。

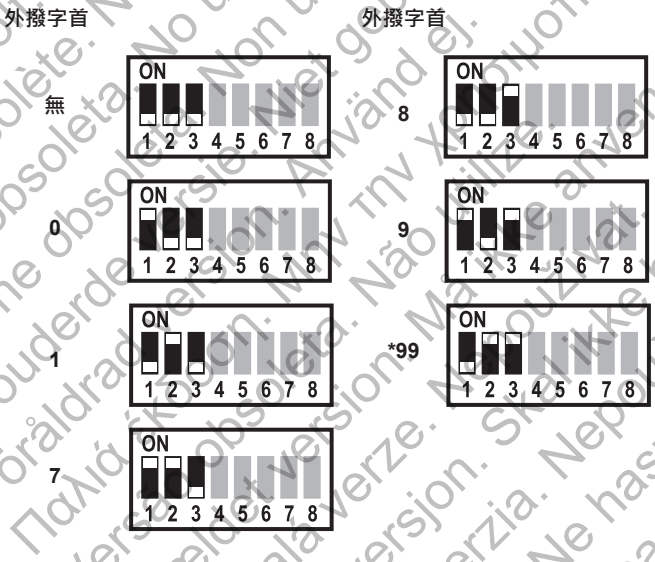


圖 9. 外撥字首開關設定

連接 USB 感應器接頭

USB 感應器接頭隨附 LATITUDE 體重計與血壓計。USB 感應器接頭為這些產品提供與遙距監測系統的無線連接。請參閱圖 10。

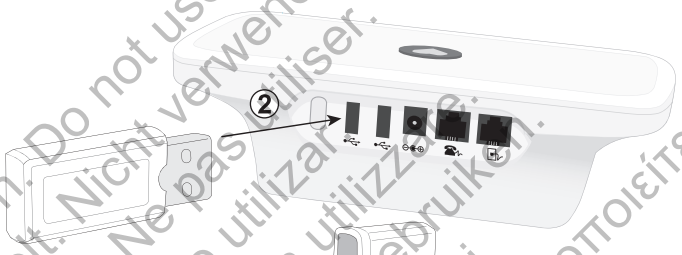


圖 10. USB 感應器接頭連接

1. 把 USB 感應器接頭的蓋子移除。
2. 將 USB 感應器接頭插進遙距監測系統背部標有 ⇠ 的 USB 埠。

將 USB 感應器接頭插入遙距監測系統後，遙距監測系統便可以隨時接收來自體重計和血壓計的測量資料。

規格

型號：	6288 及 6290 (除非特別指定，否則數值同時適用於兩種型號。)
外形尺寸：	長度：20.3 厘米 (8.00 英吋) 闊度：11.4 厘米 (4.50 英吋) 高度：6.9 厘米 (2.71 英吋)
重量：	0.38 千克 (0.83 磅)
電源：	5.0 VDC；3.0 A；連續服務 第 II 類交流電接頭：
	「型號 6288」：GlobTek™ GTM41060-1505 (隨附) Boston Scientific 358477-001 (英國) Boston Scientific 358476-002 (歐盟)
	「型號 6290」：GlobTek™ GTM41061-1512-7.0 (隨附) Boston Scientific 350126-001 (英國和香港) Boston Scientific 350120-001 (歐盟)
電源：	
輸入：	100-240 VAC；0.6 A；50-60 Hz
最大輸出：	15 W
電源供應隔離：	交流電配接插頭
防觸電保護：	第 II 類
最低運行迴路電流：	20 mA
預期壽命：	長達 15 年

埠的安全分級：	RJ-11 埠：TNV-3 電路 USB 埠：SELV 電路
「只供 6288 型號」： 短距離設備 (SRD) 接收器：	第 2 類別
模擬撥號模式：	音頻
運作溫度：	5°C 至 40°C (41°F 至 104°F)
存儲和運輸溫度*：	-25°C 至 70°C (-13°F 至 158°F)
運作濕度：	15% 至 93% 不凝氣
存儲和運輸濕度*：	高達 93% 不凝氣
運作氣壓：	70 至 106 kPa
存儲和運輸氣壓*：	50 至 106 kPa
保護防固體異物侵入：	IP21 (≥12.5 毫米直徑)
防水保護：	IP21 (防小雨)

*具備或不具備遙距監測系統保護性包裝的儲存和運輸規格。

遙距監測系統植入式裝置射頻 (「型號 6288」) :

接收頻寬：	±150 kHz
頻段：	869.85 MHz
調製傳輸類型：	ASK (幅移鍵控)
有效輻射功率：	<2.0 dBm (1.6 mW)
天線類型：	單極
天線增益：	2.1 dBi，869.85 MHz

遙距監測系統植入式裝置射頻 (「型號 6290」) :

接收頻寬：	<300 kHz
MICS/MedRadio：	402-405 MHz
調製傳輸類型：	FSK (頻移鍵控)
有效輻射功率：	<-16 dBm (25 µW)
天線類型：	單極
天線增益：	0.0 dBi，403.5 MHz

USB 感應器接頭：

2.4 GHz 無線 USB 適配器
Delta Mobile Systems™ 型號 DM210
Boston Scientific 型號 6454
(附隨 LATITUDE 體重計與血壓計)

運作頻率：	2,400.0 至 2,480.0 MHz
調製類型：	自適應跳頻
有效輻射功率：	14 dBm (25 mW)
運作溫度：	0°C 至 70°C (32°F 至 158°F)
存儲和運輸溫度：	-20°C 至 85°C (-4°F 至 185°F)
運作濕度：	10% 至 85% 不凝氣
存儲和運輸濕度：	10% 至 85% 不凝氣
天線類型：	單極
天線增益：	2.6 dBi，2,442 MHz

DSL 過濾器 (如有提供)：

DSL 在線過濾器
Excelsus™ Technologies, Inc. - 型號 Z-200SM
Boston Scientific - 型號 6421
直流迴路電流：20-100 mA DC

「型號 6288」流動射頻：

EGSM-900：	TX 880–915 MHz RX 925–960 MHz 有效輻射功率：29.0 dBm 天線類型：單極 天線增益：1.0 dBi， 897.4 MHz
DCS-1800：	TX 1,710–1,785 MHz RX 1,805–1,880 MHz 有效輻射功率：26.0 dBm 天線類型：單極 天線增益：4.0 dBi， 1,747.4 MHz

LATITUDE NXT USB 流動數據接頭 (型號 6296)：

EGSM-900：
TX 880–915 MHz
RX 925–960 MHz
有效輻射功率：28.7 dBm
天線類型：單極
天線增益：1.7 dBi，
897.4 MHz

DCS-1800：
TX 1,710–1,785 MHz
RX 1,805–1,880 MHz
有效輻射功率：26.7 dBm
天線類型：單極
天線增益：2.2 dBi，
1,747.4 MHz

W-CDMA 900：
TX 880–915 MHz
RX 925–960 MHz
有效輻射功率：18.0 dBm
天線類型：單極
天線增益：1.7 dBi，
897.4 MHz

W-CDMA 2100：
TX 1,920-1,980 MHz
RX 2,110-2,170 MHz
有效輻射功率：18.4 dBm
天線類型：單極
天線增益：1.8 dBi，
1,949.9 MHz

安全和標準

- 沒有經 Boston Scientific 明確認可的更改或改動，可導致用戶失去操作此設備的權利。
- 每次使用前，目視檢查遙距監測系統以確保外殼沒有裂紋，以及交流電接頭及其他連接的物件完整完好。
- 使用規定以外的附件或電線可能會使 LATITUDE 遙距監測系統的輻射增強，或抗擾性下降。
- 將您的遙距監測系統及所有配件放置在兒童和寵物不能觸及的地方。細小的零件如果被吞嚥，可導致窒息或嚴重傷害，而連接電源線亦可能會造成窒息的危險。如此情況發生，請向醫療專業人士查詢。
- 除了電話連接器，請勿將其他物品插入遙距監測系統背部的電話插口。插座的電觸頭上可能帶有電壓，因此有受到電擊的潛在危險。
- 請勿在有易燃性氣體混合物的環境中使用遙距監測系統，包括麻醉劑、氧氣或一氧化二氮。
- 使用者應注意與產品保持 20 厘米的距離，確保符合歐洲標準 (EN) 的要求。

- 「只供 6288 型號」：要防止電磁干擾，有必要使其他無線通訊設備 (比如手提電話及其基站、流動電話以及無線家庭網絡裝置) 至少距離遙距監測系統 3.3 米 (11 呎)。
- 「只供 6290 型號」：要防止電磁干擾，有必要使其他無線通訊設備 (比如手提電話及其基站、流動電話以及無線家庭網絡裝置) 至少距離遙距監測系統 0.5 米 (1.6 呎)。
- 其他無限通訊設備可能會干擾遙距監測系統，即使它們符合無線電干擾特別委員會 (CISPR) 的輻射要求。
- 如果您的家中專門有與電話線相連的專門有線警報設備，請確保遙距監測系統的安裝不會使警報設備失效。如對什麼會導致警報設備失效有疑問，請向您的電話公司或合資格的安裝人員查詢。
- 電話公司會對其設施、設備、操作或程序進行更改，可能會影響到設備的運作。如發生上述情況，電話公司會提前通知，讓您可以事先進行必要的變動以維持無間斷的服務。如果設備對電話網絡有損害，電話公司會要求您斷開設備連接直至問題解決。

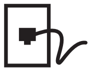
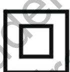
- 本設備已經過測試，並符合 EN 60601-1:2006 標準的適用安全部分。
- 本設備已經過測試，並符合以下電磁兼容性 (EMC) 標準：EN 60601-1-2:2007。
- 無線電訊終端設備 (RTTE)。Boston Scientific 在此聲明本裝置符合 Directive 1999/5/EC 的基本要求及其他相關規定。如要獲得完整的「符合標準聲明」，請使用封底的訊息聯絡 Boston Scientific。
- 連接到模擬和數字接口 (訊號輸入及訊號輸出) 的配件設備，必須按照相關 EN 標準驗證。任何人把可配置醫療系統的額外的設備連接到訊號輸入部分或訊號輸出部分，必須負責使該系統符合 EN60601-1:2006 第 16 章的要求。如有疑問，請向您當地代表的技術服務部門查詢。

軟件

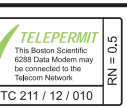
包含在此產品中的軟件載有以 GNU 通用公共許可證 (GPL) 版權的軟件。依據由自由軟件基金會發佈的 GPL 條款，您可以從我們這裡獲得相應的完整源代碼，期限為產品出廠起三年。

繁體中文

產品及商標圖示說明

圖示	含義
	從電話插座輸入
	輸出至電話 (可選)
	AC / DC 接頭電源輸入
	直流電 (DC)
	通用串行總線 (USB) 連接器
P/N	零件編號
SN	序列編號
REF	參考編號
	非電離電磁輻射
	IEC 60601 第 II 類醫療設備、防觸電保護
	製造商
	製造日期
	請依照使用指引
IP21	防止固體異物及水進入

圖示	含義
3.0	適用於 LATITUDE NXT 3.0
CE	CE 合格標誌 (適用於 USB 感應器接頭)
CE 0086	CE 合格標誌由指定機構鑑定及授權使用 (適用於「6290 及 6296 型號」)
CE 0086 ①	CE 合格標誌由指定機構鑑定及授權使用，RTTE 指定用於無線電設備 (適用於「6288 型號」)
EC REP	歐洲共同體授權代理
AUS	澳洲贊助商地址 (適用於配電箱)
	電源指示器 (適用於 USB 流動數據接頭)
	無線指示器 (適用於 USB 流動數據接頭)
	電子電器廢棄物 (WEEE) 圖示，代表電子和電器設備分類收集 (即不要將此裝置拋棄在垃圾桶中)
ANATEL Agência Nacional de Telecomunicações	指符合電訊設備 Anatel 決議 (巴西)
	表示此產品符合適用的澳洲電訊和無線電通訊標準的要求，且本產品可以連接到澳洲電訊網絡或設施 (適用於「6290 及 6296 型號」)
	表示此產品符合適用的澳洲電訊和無線電通訊標準的要求，並且此產品可以連接到澳洲電訊網絡或設施 (適用於「6288 型號」)
	表示產品符合適用的澳洲無線電通信標準 (適用於 USB 感應器接頭)

圖示	含義
	符號的代表性樣本表示此裝置可被合法地連接到新西蘭網絡
	表示此產品符合適用的日本電訊標準 (適用於「6296 型號」)
	溫度範圍限制
	濕度範圍限制
	大氣壓力範圍限制

常見問題

這些常見問題的目的，旨在協助您從本手冊中的正確章節得到答案。

遙距監測系統是否會在緊急情況中呼叫急救服務？

不。LATITUDE 系統並不是供醫療急救之用。如果您感不適，請致電您的醫療服務人員或緊急服務。請參閱「LATITUDE 病況管理系統」頁面 91。

我應將遙距監測系統放在哪裡？

請參閱「遙距監測系統擺放位置」頁面 97。

我應如何使用固網電話安裝遙距監測系統？

請參閱「使用標準固網電話插座連接」頁面 104。

我應如何使用 LATITUDE GSM 數據計劃及 USB 流動數據接頭安裝遙距監測系統？

請參閱「使用 LATITUDE GSM 數據計劃」頁面 106。

我應如何使用 USB 乙太網絡接頭安裝遙距監測系統？

請參閱「使用 USB 乙太網絡接頭連接」頁面 110。

我如何得知遙距監測系統是否正在運作？

請參閱「遙距監測系統的正常操作」頁面 113。

這些燈光代表什麼？

請參閱「指示燈說明」頁面 116 或「排除故障」頁面 123。

如何手動傳送我的數據？

請參閱「當使用心臟按鈕時的指示燈次序」頁面 114。

我應在何時使用遙距監測系統？

請參閱「LATITUDE 病人支援」頁面 95 或「從您的植入式裝置讀取數據」頁面 142。

在旅行時我該如何處理遙距監測系統？

請參閱「旅行時攜帶您的遙距監測系統」頁面 146。

我該如何處置遙距監測系統？

請參閱「回收、更換或棄置遙距監測系統、USB 流動數據接頭和 USB 乙太網絡接頭」頁面 151。

我可以在哪裡獲得更多幫助？

致電您的醫療服務人員。

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