MiniMed® Connect

User Guide

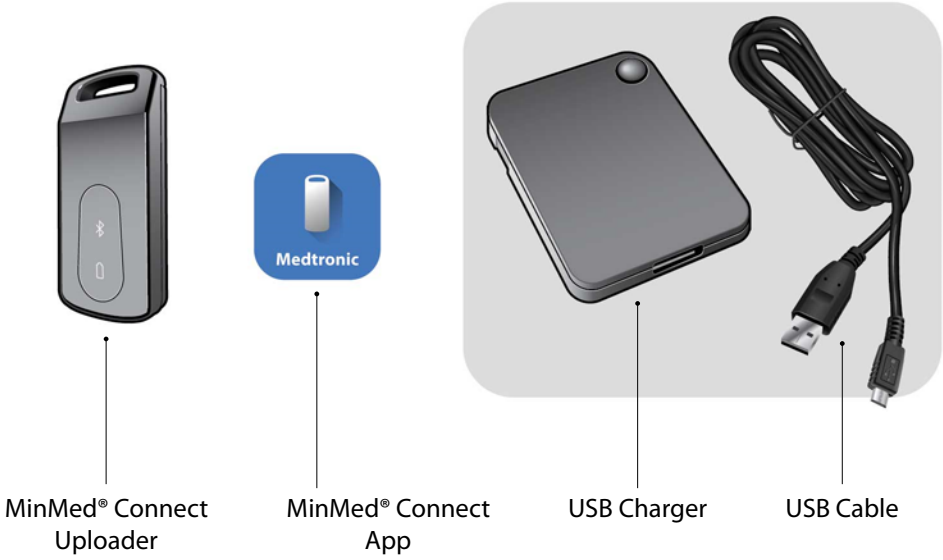
Introduction

Thank you for choosing Medtronic Diabetes (legally known as Medtronic MiniMed, Inc.) as your diabetes management partner.

MiniMed® Connect is an accessory of a MiniMed® 530G or a MiniMed® Paradigm® REAL-Time Revel™ sensor-augmented pump system. It is used to provide a passive, secondary display of sensor-augmented pump information on your mobile device.

This user guide is designed to help you understand the setup and operation of MiniMed Connect. For details on using the other system components, please see the corresponding device user guides.

System components



The MiniMed Connect System includes the following components:

- **MiniMed Connect Uploader (MMT-7018)**—a device that sends data from your pump to your mobile device, enabling your mobile device to display pump and sensor information. To achieve continuous data transmission, the uploader needs to be within six feet of the pump.
- **MiniMed Connect App (MMT-7001)**—an app downloaded to your compatible mobile device. It displays some insulin and continuous glucose monitoring data provided by the pump, as well as system status information.

  Note: *The app can be downloaded on a consumer-owned mobile device with a compatible operating system. A list of compatible operating systems is available in the app store found on your mobile device.*
- **USB charger (MMT-7019)**—a device that charges the uploader. It uses a separate, detachable micro-USB cable.

  Note: *Use only the Medtronic USB charger and cable with your uploader.*

User safety

This section includes important safety information such as indications, contraindications, safety warnings, potential adverse reactions. This section also explains how to protect the system from radiation exposure damage.

Indications

MiniMed Connect is intended to provide a secondary display of CGM and insulin pump information on a suitable consumer electronic device to care partners and users of a MiniMed 530G system or Paradigm REAL-Time Revel system for the purposes of passive monitoring.

MiniMed Connect is not intended to replace the primary display of continuous glucose monitoring and insulin pump information on the primary display device. All therapy decisions should be based on blood glucose measurements obtained from a blood glucose meter. MiniMed Connect is not intended to receive information directly from the sensor or transmitter of the sensor-augmented pump system.

Contraindications

This device is not intended for making treatment decisions.

This device is not intended for calculating insulin or other drug doses.

This device is not intended for controlling insulin pumps or other drug delivery systems.

Dosing decisions should not be made based on this device. The user should follow instructions on the sensor-augmented pump system.

This device is not intended to replace self-monitoring practices advised by the healthcare professional.

Warnings

Warning: Any changes or modifications to the devices not expressly approved by Medtronic Diabetes could interfere with your ability to operate the equipment, cause injury, and void your warranty.

Uploader

This product contains small parts and may pose a choking hazard for young children.

Precautions

MiniMed Connect App

The MiniMed Connect app cannot tell you about all potential problems. The app does not provide alarms or notify the user; it is intended only to display information. Refer to your pump system user guide for additional precautions.

Proper operation of the app relies upon an operating consumer electronic device with proper settings. A non-functioning mobile device, or improper setting changes on the mobile device, may prevent the app from functioning properly.

Uploader

Do not allow water, or any other liquid, to come in contact with the uploader. The uploader is not waterproof.

Always keep the uploader within 6 feet (1.8 meters) of the pump.

Warning: Using or storing the uploader outside the specified ranges of its operating conditions or storage conditions may damage the uploader.

Notice

Radio frequency (RF) communication

This device complies with the United States Federal Communications Commission (FCC) and international standards for electromagnetic compatibility.

The following information is provided in accordance with Federal Communications Commission (FCC) regulations.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesirable operation.

This device does not interfere with any radio frequency signals transmitted from outside sources. These FCC standards are designed to provide reasonable protection against excessive radio frequency interference and prevent undesirable operation of the device from unwanted electromagnetic interference.

Radio frequency (RF) interference from other wireless devices
Common consumer electronic devices that transmit in the same frequency band used by the uploader (MMT-7018) may prevent the uploader from receiving the data sent by Medtronic Diabetes therapy management devices.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by increasing the separation between the equipment and receiver.

Communication problems can typically be resolved by ensuring that the distance between uploader and receiving device is less than 6 feet (1.8 meters). You can also reorient or relocate the uploader or pump to try to correct the interference. Note that RF interference will not cause any incorrect data to be processed and will not cause any harm to the uploader. If you continue to experience RF interference, please contact the 24 Hour HelpLine.

Assistance

Medtronic Diabetes provides a 24 Hour HelpLine for assistance. The 24 Hour HelpLine is staffed with representatives who are trained in the setup and operation of MiniMed Connect and are able to answer related questions.

Department	Telephone number
24 Hour HelpLine (calls within the United States)	800 646 4633
24 Hour HelpLine (calls outside the United States)	+1 818 576 5555
Web site	www.medtronicdiabetes.com

Emergency kit

Keep an emergency diabetes kit with you at all times to make sure that you always have necessary supplies. Tell a family member, co-worker, or friend where you keep your emergency kit.

It is important that you test your blood glucose more frequently while you are traveling. The routine hassle of travel, including stress, changes in time zones, schedules and activity levels, meal times and types of food, can all affect your diabetes control. Be extra attentive to monitoring your blood glucose frequently, and be prepared to respond if needed.

Your emergency kit should include these items:

- Fast-acting glucose tablets
- Blood glucose monitoring supplies
- Urine or blood ketone monitoring supplies
- Extra MiniMed® infusion set and MiniMed® reservoir
- Insulin syringe and fast-acting insulin (with dosage instructions from your healthcare professional)
- Wallet card (packaged with your pump system accessories)
- Adhesive dressing
- Glucagon™ emergency kit
- Extra AAA alkaline batteries (Energizer® brand is recommended)

How to use this guide

Note: *This user guide shows sample screens only. The screens on your device may be slightly different.*

The following table describes terms and conventions used in this guide.

Convention	Description
Bold text	To indicate screen items and buttons. For example, "Tap **Search** to continue."
Pinch and stretch	Touch the screen with two fingers and slide them toward each other (pinch) or away from each other (stretch).
Press	To push and then release a button.
Press and hold	To push and keep pressure on a button.
Tap	Tap your finger to select or activate an option on your device.
Double-tap	Tap the screen or button twice in rapid succession.
Swipe	Starting at or near one edge of the screen, slide your finger quickly across the screen without lifting your finger.

Convention	Description
Note	Provides additional helpful information.
Caution	Notifies you of a potential hazard which, if not avoided, may result in minor or moderate injury or damage to the equipment.
Warning	Notifies you of a potential hazard which, if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

Warranty

During the six-month warranty period, Medtronic Diabetes will, at its discretion, either repair or replace any defective MiniMed Connect uploader subject to the conditions and exclusions stated herein. In the event that MiniMed Connect uploader is repaired or replaced, the warranty period will not be extended.

This warranty is valid only if MiniMed Connect uploader is used in accordance with the manufacturer's instructions. This warranty will not apply:

- If damage results from changes or modifications made to the device by the user or third persons after the date of manufacture;
- If damage results from service or repairs performed by any person or entity other than the manufacturer;
- If damage results from a *Force Majeure* or other event beyond the control of the manufacturer;
- If damage results from negligence or improper use, including but not limited to improper storage, submersion in or extended exposure to liquids or physical abuse, such as dropping or otherwise.

This warranty shall be personal to the original user. Any sale, rental, or other transfer or use of the product covered by this warranty to or by a user other than the original user shall cause this warranty to immediately terminate. This warranty does not apply to chargers or accessories.

The remedies provided for in this warranty are the exclusive remedies available for any breach hereof. Neither Medtronic Diabetes nor its suppliers or distributors shall be liable for any incidental, consequential, or special damage of any nature or kind caused by or arising out of a defect in the product.

All other warranties, expressed or implied, are excluded, including the warranties of merchantability and fitness for a particular purpose.

Caution: Changes or modifications not expressly approved by Medtronic MiniMed, Inc. could void the user's authority to operate the equipment.

MiniMed Connect setup

This section walks you through how to set up MiniMed Connect.

Charge your MiniMed Connect Uploader

Before you can begin using MiniMed Connect, you must first charge the uploader. The uploader can be charged using the USB charger (MMT-7019). The uploader is charged within three hours when using a standard 120V AC outlet.

A blinking green light indicates that the uploader is charging. A solid green light indicates that it is fully charged. For more information about the lights that appear on your uploader, see *Uploader LED quick reference, on page 17*.

Download the MiniMed Connect App

The app runs on the operating system of your mobile device. Download the app from the app store on your mobile device.

Note: *Check the app store on your mobile device for a list of compatible devices.*

Create a user account

You will need your CareLink® username and password when setting up the app.

Create an account for CareLink Personal if you have not already done so.

To create an account, visit the following website from your personal computer or mobile device:

www.carelink.minimed.com

Open the MiniMed Connect App

Before getting started, make sure that:

- The uploader is charged.
- Bluetooth® on your mobile device is turned on.
- You have an Internet connection.

To open the MiniMed Connect App:

1 On your mobile device, open the MiniMed Connect App.

2 Tap **Get Started**.
The Sign in to CareLink screen opens.

3 Enter your CareLink account information (username and password).

Note: *If you do not have a CareLink account, tap* ***Do not have a CareLink account yet?****.*

4 Tap **Sign in**.

Pair your MiniMed Connect Uploader to your mobile device

Before you can start using the mobile app, you must first pair your uploader to your mobile device. You must also have Bluetooth® enabled on your mobile device.

After successfully signing in to the app, the Pair Uploader screen appears.

To pair the uploader:

1 Press and hold the button on the uploader for three seconds. A blue light flashes on the uploader. For more information about lights on your uploader, see *Uploader LED quick reference, on page 17*.

2 Tap **Search**.
The Confirm Serial Number screen appears.

One or more serial numbers could be displayed.

3 Tap the serial number that matches the serial number on the back of your uploader, as shown.

A check mark appears next to the selected serial number.

4 Tap **Pair**.

5 Tap **Pair** again to confirm your selection.
The screen should now indicate that the uploader has been successfully paired with your mobile device.

After a few seconds, the Pair Pump screen opens to walk you through pairing your pump with the uploader.

6 Follow the directions on the Pair Pump screen to put your pump in pairing mode.

7 When you see the following message displayed on your pump, return to the app and tap **Next**.
Device search

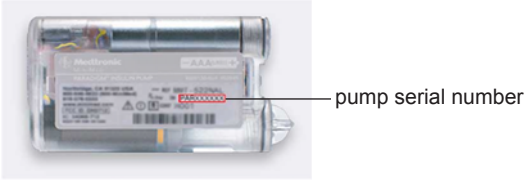
Minutes remaining: 15

Press ESC to quit.

Press ACT to extend.

The Pump Serial Number screen appears.

8 Enter your pump serial number in the field provided.
The serial number can be found on the back of your pump.



9 Tap **Search**.
The Pump Paired screen appears.

10 If the pump cannot find the uploader and the pairing process fails, make sure that:
- The pump and uploader are within 6 feet (1.8 meters) of each other.
- The pump and uploader are both in pairing mode.

You have completed the system setup. You can now use your app.

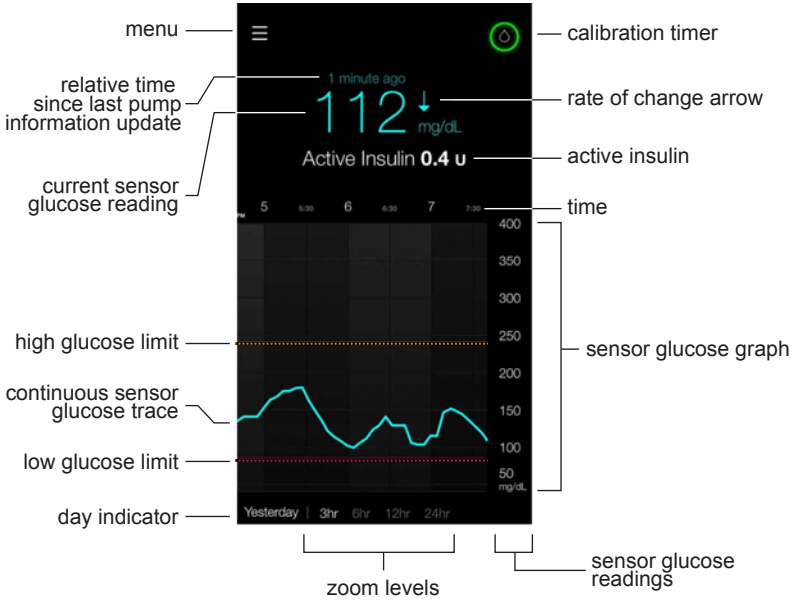
Using the MiniMed Connect App

The following sections walk you through the different screens of the app, including the Home screen, menu, sensor graph, and more.

Note: *The app receives data only when the app is running on the mobile device. Closing the app prevents the app from receiving data. Keep the app open or running in the background.*

Home screen

The Home screen on the display is the main screen for viewing the sensor-augmented pump information sent by the pump system.



Note: *No sensor information displays the first time you see the Home screen. Sensor glucose readings appear as soon as the pump sends data.*

Item	Description
Menu	Provides access to the Menu screen, which displays information about your up-loader, your insulin pump, and your glucose sensor.

Item	Description
Calibration timer	The color of the ring and the size of its displayed segment indicates calibration status and the approximate time left until your next sensor calibration. When your sensor is calibrated, the ring is solid green. As the time for your next sensor calibration approaches, segments of the ring disappear, and its color changes, until a red blood drop appears instead of the ring, as shown below: A full green circle indicates 12 hours remaining. Orange indicates three hours remaining. Red indicates one hour remaining. When the red blood drop appears, a sensor calibration is due on your pump. A full blue circle with a question mark indicates that calibration time has not been communicated to the app. Tap the Calibration icon to display the time when the next calibration is due.
Relative time	The amount of time since the last pump and sensor information update.
Current sensor glucose reading	Your current sensor glucose reading. The current sensor glucose value appears in orange if it is above the high glucose limit and appears in red if it is below the low glucose limit.
Active insulin	The amount of bolus insulin that has been delivered but which has not yet been used by your body.
Rate of change arrows	Displays the rate of change of your sensor glucose values. See pump system user guide for more information on rate of change arrows.
Sensor glucose graph	Displays the sensor glucose value range for the sensor graph at preset intervals. Double-tap the y-axis labeled with the sensor glucose values to return to the current time when you are viewing historical data.
Sensor glucose reading	Displays the sensor glucose values for the graph
Time	Displays the pump time for the selected period on the graph. The axis moves as you scroll horizontally through the sensor graph. The time scale changes when you select different zoom levels or when you pinch or stretch the graph horizontally with your fingers. Tap the time axis to center the selected time point on the graph. An information box appears above the graph, with a sensor glucose reading or even details displayed for that time. For details, see *Graph information boxes, on page 12*.
High glucose limit, low glucose limit	Displayed as orange and red horizontal lines if you have set your high and low limits on your pump. The lines may be straight or stepped, depending on whether you have defined the same high and low limits for the entire day or different ones for daytime and nighttime. These limits are set on your pump. For details on setting limits, see your pump system user guide.

Item	Description
Sensor glucose trace	Displays your current and historical SG readings. Tap any point on the graph to view the details of the selected sensor glucose reading or event in the information box that appears above. For more navigating tips, see *Navigating sensor glucose graph, on page 12*.
Zoom levels	Tap on the any of the numbers below the graph (3, 6, 12, 24 hours) to change the resolution on the graph.
Day indicator	Displays the date of the data shown in the graph.

Navigating sensor glucose graph

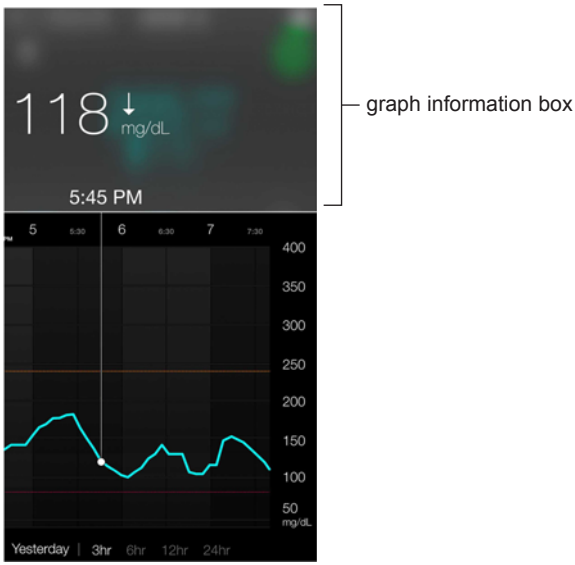
Use the following tips to navigate the sensor graph data:

- Swipe the center of the graph right and left to view historical data and to return to the current graph location.
- Pinch and stretch the center of the graph with your fingers to zoom out and in on the graph data.
- Double-tap the graph to view the graph at the predefined 3-hour, 6-hour, 12-hour, and 24-hour zoom levels.
- Tap the horizontal time axis to center the selected time point on the graph. You can also tap the horizontal time axis to view the details of the selected sensor glucose reading or event in a box that appears above the graph. For details, see *Graph information boxes, on page 12*.
- Double-tap the vertical sensor glucose values axis to return to the current reading on the graph.

Graph information boxes

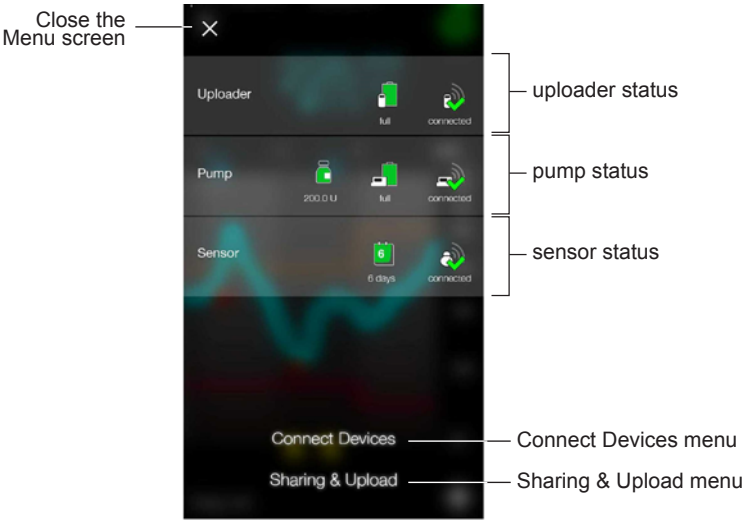
When you tap any point on the sensor glucose trace, the selected time is marked by a vertical cursor on the graph. A graph information box appears. The information box displays the sensor glucose value, date and time, and rate of change arrows. The information box changes as you drag your finger along the sensor glucose graph.

When the sensor glucose value goes above the high glucose limit, the sensor glucose value is displayed in orange. When the sensor glucose value goes below the low glucose limit, the sensor glucose value is displayed in red.



Menu screen

The Menu screen appears when you tap ☰ on the Home screen.



Item	Description
Close the Menu screen	Closes the menu screen and returns you to the Home screen.
Uploader status	Displays the status of the uploader battery and communication between the uploader and the mobile device.
Pump status	Displays the status of the pump reservoir, pump battery, and communication between the pump and your uploader.
Sensor status	Displays the status of the sensor life and communication between the sensor and your pump.
Connect Devices menu	Menu for adjusting and setting up communication between the app, uploader, and pump.
Sharing & Upload menu	Menu for signing in to CareLink and configuring settings for sending data to CareLink.

System status icons

The system status icons are located on the Menu screen and allow you to quickly check the status of your pump, sensor, and uploader. If any condition becomes critical and requires your immediate attention (for example, the pump battery becomes depleted), the corresponding status icon displays on the Home screen next to the Calibration icon.

Icon name	Description
Uploader battery	The charge level of your uploader battery. The color and the fill level of the icon indicate the status. When your battery is full, the icon is solid green. As the battery life is used, the icon changes as shown. The icon with the question mark indicates that the charge level of the uploader battery is unknown. This happens if your mobile device is out of range from your uploader or the app does not have a current status of the battery.
Uploader communication	The communication status between your uploader and mobile device. The green checkmark means that you are connected and communicating with your uploader. The red X indicates that your uploader is not communicating with your mobile device. **Note:** *If your uploader is not communicating with your mobile device, your other system status icons will be unavailable.*
Pump reservoir	The fill level of your pump reservoir. The color and the fill level of the icon indicate the status. When your pump reservoir is full, the icon is solid green. As the reservoir level decreases, the icon changes as shown. The blue icon with the question mark indicates that the fill level of your pump reservoir is unknown. This happens if your uploader is out of range of either the pump or your mobile device.
Pump battery	The charge level of your pump battery. The color and the fill level of the icon indicate the status. When your battery is full, the icon is solid green. As the battery life is used, the icon changes as shown. The blue icon with the question mark indicates that the charge level of the pump battery is unknown. This happens if your uploader is out of range of either the pump or your mobile device.

Icon name	Description
Pump communication	The communication status between your pump and your uploader. The green check mark indicates that your uploader is communicating with your pump. The red X indicates that your pump is not communicating with your uploader. The icon with the question mark indicates that the pump communication status is unknown. This happens if your uploader is out of range of either the pump or your mobile device.
Sensor life	The remaining life of your sensor in days. The color of the icon indicates relative life, and the number indicates the days of remaining life for your sensor. The red-outlined icon with the X indicates that your sensor life has expired. The icon with the question mark indicates that your sensor life is unknown. This happens if your uploader is out of range of either the pump or your mobile device or if the pump cannot communicate with the sensor. Paradigm REAL-Time Revel MiniMed 530G
Sensor communication	The communication status between your transmitter and your pump. The icon with the checkmark indicates that your transmitter is communicating with your pump. The red X indicates that your transmitter is not communicating with your pump. The icon with the question mark indicates that the transmitter-to-pump communication status is unknown. This happens if your uploader is out of range of either the pump or your mobile device or your pump cannot communicate with the sensor.

Using the uploader

You can use the uploader button to do the following actions:

Turning on the uploader

Press and hold the button for about two seconds to turn on the uploader.

The green LED, red LED, and blue LED each blink as the uploader turns on.

Confirming the uploader is turned on
Press the button for one to two seconds.

The green LED will blink every second for three seconds, to confirm that the uploader is turned on.

Turning off the uploader
Press and hold the button for six seconds to turn off the uploader.

The red LED light appears for at least one second as the uploader turns off.

Pairing mode
Press and hold the button for three seconds to put the uploader into pairing mode.

The blue LED flashes every four seconds when in pairing mode. If the device is not paired within 20 minutes, the blue LED shuts off.

Charging
You should charge your uploader battery every night. It is recommended to charge your uploader within range of your mobile device. Charging should take about three hours.

Uploader LED quick reference
Refer to the following table for LED statuses and their meanings.

LED Status	Description	What it means
	Blue LED blinks every four seconds.	Uploader is in pairing mode.
	Green LED blinks every four seconds.	Uploader battery is charging.
	Red LED light appears for at least one second and then turns off.	Uploader has been turned off.

LED Status	Description	What it means
	Green LED shines continuously.	Uploader battery is fully charged.
	Green LED blinks every second for three seconds after the user presses the button for one to two seconds.	Uploader is on.
	Red LED blinks every second.	Contact the 24 Hour HelpLine for assistance.

Air travel
Turn off your uploader when boarding an airplane; it is an RF device and is not certified for operation aboard aircraft.

Maintenance

Maintaining your MiniMed Connect Uploader

To maintain your uploader:

1 Moisten a clean, soft, lint-free cloth with a 70 percent solution of isopropyl alcohol, or open a prepackaged 70 percent IPA wipe.
2 Gently wipe the outer surface of the uploader with the moistened cloth or wipe.
3 Let the uploader air dry, or wipe it dry with a soft, dry, lint-free cloth.

Warning: Do not use your uploader in water or wear it during water activities. The uploader is not water-tight, and it may become damaged if it is used in the water.

Caution: Dispose of the uploader according to the local regulations for battery disposal (non-incineration).

FAQ and troubleshooting

Status messages
MiniMed Connect is a secondary display system only. For more detailed information on pump messages and warnings, see your pump system user guide.

There may be a number of reasons why you don't see sensor glucose values on the graph. If you do not see a sensor glucose value, a status message may appear in the app. The table below describes those possible scenarios.

Message title	Message text
Mobile Device	
Bluetooth® off	Turn on Bluetooth® to see your current sensor information.
Pump	
Above 400 mg/dL	Sensor glucose value is outside the sensor range.
Below 40 mg/dL	Sensor glucose value is outside the sensor range.
Cal error	Invalid sensor data or invalid BG value. See your pump system user guide.
Change sensor	Sensor can no longer be used. Insert a new sensor.
Lost sensor	Sensor values not available. Go to Find Lost Sensor on your pump. See your pump system user guide.
Meter BG Now	Sensor values not available. Enter a new BG now.
Pump weak signal	Move uploader closer to pump. See your pump system user guide.
Sensor end	Replace sensor. See your pump system user guide.
Sensor error	Invalid sensor value. See your pump system user guide.
Sensor off	Sensor values not available. Go to the Sensor screen on your pump.
Sensor weak signal	Move the uploader closer to the pump. See your pump system user guide for additional information.
Warm up	Warming up sensor. This may take up to two hours. A calibration will be required at that time.
MiniMed Connect Uploader	
Uploader battery empty	No longer receiving information from pump. Recharge uploader battery now.
Uploader weak signal	Move uploader closer to your mobile device. See your pump system user guide.

Specifications

Applied parts	MiniMed Connect Uploader and USB charger
Atmospheric pressure range	57.6kPa (16,000’ elevation) to 106kPa (-1300’ elevation)
Bluetooth® Low Energy (BLE) range from uploader to mobile device	20 feet in free air and line-of-sight communication
Battery life	24 hours
Charger dimensions	2.28 X 1.85 X 0.39 inches

Charger weight	0.88 oz (25 grams)
Operating conditions	Temperature and humidity: 32 °F (0 °C) at 10% RH to 113 °F (45 °C) at 95% RH
Storage conditions	Temperature: -4 °F (-20 °C) to 131 °F (55 °C) Relative Humidity: Not to exceed 95% (non-condensing) at 131° F (55° C)
RF communication range from sensor-augmented pump to uploader	Six feet in free air and line-of-sight communication
Uploader radio frequency (RF)	Pump to uploader: ISM 916.5 MHz Uploader to mobile device: BLE (Bluetooth® Low Energy): 2.4 GHz
Uploader dimensions	2.54 X 1.09 X 0.42 inches
Uploader and charger expected service life	One year
Uploader weight	0.7 oz (20 grams)

Icon table

	Manufacturer
	Non-ionizing electromagnetic radiation
REF	Catalogue or Model Number
	Electric and electrical waste: Do not dispose of this product in unsorted municipal waste stream. Recycle device according to local requirements.
	Refer to instructions before each use
	Keep dry
	Bluetooth® wireless technology or *Bluetooth*® enabled
	Storage temperature range

	Storage humidity range
	Country of Origin
	Fragile product
	Magnetic Resonance (MR) unsafe

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