Personal Therapy Manager  
myPTM® Model 8835 Personal Therapy Manager Patient Manual for Medtronic® SynchroMed® II Infusion Systems

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**FCC Information**

The following is communications regulation information on the Model 8835 Personal Therapy Manager.

**FCC ID: LF58835**

This device complies with Part 15 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 undesired operation.

**IMPORTANT:** Changes or modifications to this product not authorized by Medtronic, Inc., could void the FCC Certification and negate your authority to operate this product.
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**Glossary**

**Bolus controls** – Controls that prevent you from activating a bolus dose using your Personal Therapy Manager. Your doctor programs your pump with bolus controls.

**Bolus dose activation** – The initiation of a command from your Personal Therapy Manager to your pump that requests the pump to activate a prescribed bolus dose of medication.

**Caution** – A statement describing actions that could result in damage to or improper functioning of a device.

**Clinician** – A healthcare professional such as a doctor or nurse.

**Clinician programmer** – A device your clinician uses to adjust the amount of medication your pump delivers. The programmer communicates with your pump using radio waves.

**Dose** – The amount of drug or fluid given.
Electromagnetic interference (EMI) – A field of energy made by equipment found in the home, work, medical, or public environments that is strong enough to interfere with the operation of your Personal Therapy Manager.

Home screen – The screen that appears when you turn On your Personal Therapy Manager.

Icon – A picture on your Personal Therapy Manager that gives you information or represents a function or action.

Infusion system – An implanted system that delivers drugs or fluids to a specific site in your body.

Interrogation – The process of communication between your Personal Therapy Manager and your pump.
**Patient diary** – An optional function used for tracking your level of symptom relief. If your doctor programs the patient diary, you are periodically prompted to enter a number that represents your level of symptom relief.

**Personal Therapy Manager** – A hand-held device that allows you to supplement the continuous infusion of medication with patient-activated bolus doses.

**Precaution** – See caution.

**Programming** – When drug, therapy, or Personal Therapy Manager settings are sent to your pump.

**Refill date** – Visit your doctor for a drug refill before the date shown. The refill date is updated each time a bolus dose is activated.

**Therapy** – Treatment of a disease or condition. When infusion therapy is prescribed, an implanted infusion system is used to deliver drugs or fluids to a specific site in your body.
Warning – A statement describing an action or situation that could harm the patient.
1 Introduction
A company dedicated to patients

Medtronic was founded in 1949 by Earl Bakken, a graduate student in electrical engineering, and his brother-in-law, Palmer J. Hermundslie. Today Medtronic is the world leader in medical technology, pioneering therapies that restore health, extend life and alleviate pain.

From its modest beginnings in a 55-square-meter (600-square foot) Minneapolis garage, we have transformed Medtronic into a worldwide company that serves customers in more than 120 countries. Each year, millions of patients are treated with Medtronic products and therapies. We invest almost $500 million each year in research and development, working closely with the world’s leading physicians and scientists to
enhance our current products and therapies, and to develop new ones. Although we are a large company, individual patients and their needs are still the driving force behind what we do and how we do it.

Our goal is to improve the quality of your life. This manual, which provides information about your infusion system, is one small way we try to help.

Welcome to the Medtronic family. We wish you well.
About this manual

This manual provides you with information on:

- Patient-activated dosing
- Personal Therapy Manager system components
- How to use your Personal Therapy Manager
- How to set-up, care for, and maintain your Personal Therapy Manager
- Troubleshooting problems and identifying when to call your doctor

A glossary and an index are included at the end of the manual

For warnings, precautions, and information related to your implanted infusion system, refer to the *SynchroMed II Infusion System Patient Manual* packaged with your pump. Contact your doctor or Medtronic if you did not receive the infusion system patient...
manual. Refer to the list of Medtronic contacts at the end of this manual.

Ask your doctor to explain anything that is unclear.

**Do not use this device unless you have been trained by your clinician.**

**Purpose of the Personal Therapy Manager (indications)**

The Model 8835 Personal Therapy Manager is a handheld accessory to the SynchroMed II pump that allows you to have additional doses of medication from your pump as prescribed by your doctor.

Your doctor may prescribe the Personal Therapy Manager:

- if you have pain that varies in intensity and you need additional pain medication to treat those variations.

OR
• if other pain medication fails to decrease your pain or you have intolerable side effects.

**Risks and benefits**

Using the Personal Therapy Manager will allow you to activate doctor-prescribed additional doses of medication from your infusion system, if you need them. Your doctor may prescribe the Personal Therapy Manager if:

• you have pain that varies in intensity and you need additional pain medication to treat those variations, or
• other pain medication fails to decrease your pain or you have intolerable side effects.

The possible risks of using the Personal Therapy Manager include:

• drug side effects from the additional doses of medication. Refer to “Potential adverse events” on page 100.
• radio signals sent by your Personal Therapy Manager could interfere with other medical devices. Tell your doctor if you use any other devices (such as a pacemaker, insulin pump, or pain-relief device).

Guidelines for use

By following the guidelines listed below, you can ensure that your infusion system will function properly.

• Read the Synchronomed II Infusion System Patient Manual packaged with your pump.
• Read this Personal Therapy Manager patient manual.
• Keep your Personal Therapy Manager out of the reach of children and pets. Keep the batteries away from children. If children or pets swallow the batteries, contact a doctor at once.
• Use your Personal Therapy Manager only as explained to you by your doctor or as discussed in this manual.

• Handle your Personal Therapy Manager with care.

• Remove depleted batteries from your Personal Therapy Manager and replace them with new batteries.

• Keep new alkaline AAA batteries available (2 batteries needed).

• If you will not be using your Personal Therapy Manager for several weeks, remove the batteries.

**Warning**

**Personal Therapy Manager use** – Do not use more than one Personal Therapy Manager (of any model) with your pump. A drug overdose may occur if a request for a bolus dose is made using more than one Personal Therapy Manager, resulting in serious patient injury or death.
Precautions

Personal Therapy Manager interaction with other devices – Do not place the Personal Therapy Manager over another medical device (eg, pacemaker, defibrillator, neurostimulator, another pump). The Personal Therapy Manager could accidentally change the operation of another medical device.

Personal Therapy Manager care – To avoid damaging the Personal Therapy Manager, do not immerse it in liquid; do not clean it with bleach, nail polish remover, mineral oil, or similar substances; and do not drop it or mishandle it in a way that may damage it.
Personal Therapy Manager use – When operating a Personal Therapy Manager, use special care near flammable or explosive atmospheres. An interaction between the flammable or explosive atmospheres and the battery in the programmer could occur. The consequences of using a battery-powered programmer near flammable or explosive atmospheres are unknown.

Communication disruption from EMI – When using the Personal Therapy Manager to communicate with the pump, move away from equipment that may generate electromagnetic interference (EMI) or turn Off the likely source of EMI. EMI may disrupt the communication, preventing the dose from activating. Examples of EMI sources are computer monitors, cellular phones, and motorized wheelchairs. Refer to the infusion system patient manual for more information on EMI.
When to call your doctor

Call your doctor if any of the following occur:

• You experience anything unusual, such as new or unexplained symptoms
• You notice that you begin to feel differently or worse
• Your symptoms do not decrease with activation of a dose
• You are not getting enough relief from your symptoms
• Your symptoms change dramatically
• Your Personal Therapy Manager displays a Call Doctor screen

You should call your doctor if you have difficulty breathing or have any of the following symptoms: dizziness, drowsiness, nervousness, seizures, or euphoria.
2 Using your Personal Therapy Manager
Understanding patient-activated dosing

Your infusion system continuously delivers medication from your pump, through your catheter, and to your infusion site. Your Personal Therapy Manager communicates with your pump and allows you to periodically request a dose of medication within the physician prescription. If you make the request within the physician prescription, the pump will deliver a dose of medication. This additional medication is called a bolus dose. Your doctor may have you use the patient diary to record your level of symptoms.
Bolus dose and lockout interval

Activating a bolus dose supplements the continuous infusion of medication supplied by your implanted infusion system.

The bolus dose and lockout interval controls the amount of medication you can deliver with your Personal Therapy Manager. Your doctor programs this information into your pump.

- **Bolus dose**—amount of medication to be delivered.
- **Bolus controls**—length of time that you must wait between bolus doses, prescribed by your doctor. Your doctor sets three bolus controls:
  - **Lockout interval**—length of time that you must wait between bolus doses
  - **Dose restriction interval**—Maximum number of bolus doses in a specified time period
- **Maximum per day**—Maximum number of bolus doses in a day (midnight to midnight)

Be sure to talk with your doctor about the number of bolus doses programmed and the length of time between bolus doses. Your doctor may need to adjust the programming to find a combination that meets your needs.

**Personal Therapy Manager overview**

![Figure 2.1](image-url) The Personal Therapy Manager.

- Communication light
- Bolus Request key
- Screen
- Selector key
- Power/Backlight key
- Navigator key

**myPTM**
Activating a bolus dose

Notes:

• Read this entire chapter before you activate a bolus dose.

• Immediately after a pump programming session or refill, there will be a lockout interval that determines when you may receive another bolus dose (refer to “Bolus dose and lockout interval” on page 27). Ask your doctor when you will be able to activate your first bolus dose.

• Your doctor may program your pump to deliver a therapeutic dose. You can not activate a bolus dose when the therapeutic dose is active. Ask your doctor about the therapeutic dose.
1. Turn your Personal Therapy Manager On

To turn your Personal Therapy Manager On, press the Power/Backlight key (Figure 2.1). The Home screen appears (Figure 2.2).

![Figure 2.2 Home screen](image)

Notes:

- If the Home screen does not appear when you turn On your Personal Therapy Manager, contact your doctor.
- The Bolus Request key is active only when the Home screen appears on the Personal Therapy Manager screen.
- The Personal Therapy Manager must be placed over your pump to activate a bolus dose.
2. Press the Bolus Request key

From the Home screen (Figure 2.2), press the Bolus Request key.

Notes:

• If your doctor has enabled the patient diary, the Patient Diary screen appears (Figure 2.3). Go to “3. Make a Patient Diary entry” on page 32.

• If your doctor has not enabled the patient diary, the Pump Search screen appears. Go to “4. Place the Personal Therapy Manager over your pump” on page 34.
3. Make a Patient Diary entry

If your doctor enables the patient diary on your Personal Therapy Manager, the Patient Diary screen and a series of tones prompt you to make an optional entry in your patient diary:

- prior to bolus dose activation.
- following bolus dose activation.

**Note:** Your doctor may enable up to four patient diary requests to follow a bolus dose activation.

To make a patient diary entry:

1. Choose a number between 0–10 that represents how you feel (Figure 2.3):
   - A lower number means your symptoms are less intense
   - A higher number means your symptoms are more intense
2. Press the left or right arrow on the Navigator key to select the diary number.

3. Press the Selector key to enter the value.

**Figure 2.3** Patient Diary screen.
**Note:** Your doctor uses patient diary information to monitor your therapy. However, you may choose not to make a patient diary entry. To ignore a patient diary entry request before receiving a bolus dose, press the Bolus Request key again after the Patient Diary screen appears. To ignore a patient diary entry request after receiving a bolus dose, ignore the prompts for each patient diary entry request or turn Off the Personal Therapy Manager.

**4. Place the Personal Therapy Manager over your pump**

The Personal Therapy Manager must be placed over your pump to activate a bolus dose.

After you request the bolus dose by pressing either the Bolus Request key (refer to “2. Press the Bolus Request key” on page 31) or pressing the Selector key (Refer to “3. Make a Patient Diary entry” on page 32), the Pump Search screen appears
(Figure 2.4), the Communication light blinks, and a tone repeats.

**Note:** Pressing the Selector key when the Cancel icon appears stops the request for the bolus dose.

![Cancel icon]

**Figure 2.4** Pump Search screen.

1. Place the Personal Therapy Manager over your pump with the screen facing away from you (Figure 2.5).
Using your Personal Therapy Manager 2

Figure 2.5 Place the Personal Therapy Manager over your pump.

Note: If you have difficulty reaching your pump or seeing the Personal Therapy Manager screen, your doctor can order an optional detachable antenna for you. Refer to page 76.

2. Move the Personal Therapy Manager around in the area of your pump until the Communication light remains On and the tone stops sounding.

When the Personal Therapy Manager finds your pump, the Pump Communication screen (Figure 2.6) appears, the Communication
light remains On, and the tone stops sounding.

**Note:** Pressing the Selector key \(\bigcirc\) when the Cancel icon appears stops the communication.

![Pump Communication screen](image)

**Figure 2.6** Pump Communication screen.

3. Hold the Personal Therapy Manager steady over your pump.

**Note:** After you attempt to activate a bolus dose request, the Personal Therapy Manager has ten seconds to establish communications with the pump. If communication is not established in ten seconds, the Communication Unsuccessful screen appears (Figure 2.7).
Using your Personal Therapy Manager 2

4. If the Communication Unsuccessful screen appears, press the Selector key and return to Step 1 on page 35 to repeat the bolus dose activation request.

Note: After three unsuccessful attempts, the Home screen appears.

5. Confirm the status of your bolus dose activation request

To confirm the status of your bolus dose activation request, refer to Table 2.1 on page 39.

Figure 2.7 Communication Unsuccessful screen.
### Table 2.1 Patient activated bolus dose screens and tones

<table>
<thead>
<tr>
<th>Screen and tones</th>
<th>Description or action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three ascending tones</td>
<td>Successful bolus dose activation confirmed.</td>
</tr>
<tr>
<td></td>
<td><strong>Press the Selector key</strong> to return to the Home screen.</td>
</tr>
<tr>
<td>Three descending tones</td>
<td>Bolus dose activation request denied (lockout interval).</td>
</tr>
<tr>
<td></td>
<td><strong>You tried to exceed the number of prescribed bolus dose activations or not</strong></td>
</tr>
<tr>
<td></td>
<td><strong>enough time has elapsed since your last bolus dose activation.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> The time remaining is the amount of time before a bolus dose can be**</td>
</tr>
<tr>
<td></td>
<td><strong>successfully activated. Your doctor decides if time remaining information</strong></td>
</tr>
<tr>
<td></td>
<td><strong>appears on the screen.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Press the Selector key</strong> to return to the Home screen.**</td>
</tr>
</tbody>
</table>
Using your Personal Therapy Manager 2

**Turn your Personal Therapy Manager Off**

To turn your Personal Therapy Manager Off, press the Power/Backlight key (Figure 2.1).

**Note:** The Personal Therapy Manager turns Off after approximately two minutes of inactivity.

---

**Table 2.1** Patient activated bolus dose screens and tones (Continued)

<table>
<thead>
<tr>
<th>Screen and tones</th>
<th>Description or action</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Bolus dose activation request denied symbol]</td>
<td>Bolus dose activation request denied (pump or Personal Therapy Manager alarm code).</td>
</tr>
<tr>
<td>![Three descending tones]</td>
<td>There may be a problem with your pump or Personal Therapy Manager. Call your doctor as soon as possible and read the code to the doctor.</td>
</tr>
<tr>
<td>![Bolus dose activation request denied code]</td>
<td>Press the Selector key to return to the Home screen.</td>
</tr>
</tbody>
</table>
3 Personal Therapy Manager screens and related functions
You can access therapy and alarm information and preference settings through the Personal Therapy Manager Home screen and the following menu screens:

- Therapy Menu screen
- Alarm Menu screen
- Audio Menu screen (see Chapter 4)
- Contrast Menu screen (see Chapter 4)
- Utility Menu screen (doctor access only)

Table 3.1 describes the Personal Therapy Manager Home screen and menu screens.

**Table 3.1** Personal Therapy Manager menu screens

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Home Screen Icon" /></td>
<td>The Home screen displays information about therapy, alarm, and battery status. Refer to &quot;Home screen&quot; on page 45.</td>
</tr>
</tbody>
</table>
The Therapy Menu screen provides access to information about your therapy. Refer to “Therapy Menu screen” on page 47.

The Alarm Menu screen provides access to pump and Personal Therapy Manager alarm information. Refer to “Alarm Menu screen” on page 54.

The Audio Menu screen provides access to audio settings. Refer to “Turning the audio On or Off” on page 72.

The Contrast Menu screen provides access to screen contrast setting. Refer to “Adjusting the screen contrast” on page 73.

The Utility Menu screen provides your doctor with access to information about your pump system. Only your doctor may access this information.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Therapy Menu" /></td>
<td>The Therapy Menu screen provides access to information about your therapy. Refer to “Therapy Menu screen” on page 47.</td>
</tr>
<tr>
<td><img src="image" alt="Alarm Menu" /></td>
<td>The Alarm Menu screen provides access to pump and Personal Therapy Manager alarm information. Refer to “Alarm Menu screen” on page 54.</td>
</tr>
<tr>
<td><img src="image" alt="Audio Menu" /></td>
<td>The Audio Menu screen provides access to audio settings. Refer to “Turning the audio On or Off” on page 72.</td>
</tr>
<tr>
<td><img src="image" alt="Contrast Menu" /></td>
<td>The Contrast Menu screen provides access to screen contrast setting. Refer to “Adjusting the screen contrast” on page 73.</td>
</tr>
<tr>
<td><img src="image" alt="Utility Menu" /></td>
<td>The Utility Menu screen provides your doctor with access to information about your pump system. Only your doctor may access this information.</td>
</tr>
</tbody>
</table>
Figure 3.1 shows the Personal Therapy Manager screen flow.
Home screen

When the Personal Therapy Manager is turned On, the Home screen appears (Figure 3.2).

Table 3.2 describes the icons on the Home screen.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Refill Icon" /></td>
<td>The refill icon consists of a syringe and a representative calendar page that always displays the number one. The date next to the refill icon tells you when your pump should be refilled. Refer to “Therapy Menu screen” on page 47.</td>
</tr>
</tbody>
</table>

Figure 3.2 Home screen.
Table 3.2 Home screen icons (Continued)

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Alarm Icon" /></td>
<td>The alarm icon tells you that your pump or Personal Therapy Manager has a problem. Refer to “Alarm Menu screen” on page 54.</td>
</tr>
<tr>
<td><img src="image" alt="Battery Level Icon" /></td>
<td>The battery level icon tells you how much power is left in the Personal Therapy Manager battery. Refer to “Checking the battery levels” on page 70.</td>
</tr>
<tr>
<td><img src="image" alt="Attention Icon" /></td>
<td>The attention icon appears when the Personal Therapy Manager battery level is less than 25 percent. OK appears when the battery level is 25 percent or more. Refer to “Checking the battery levels” on page 70.</td>
</tr>
<tr>
<td><img src="image" alt="Replace Battery Icon" /></td>
<td>The replace battery icon tells you to replace the Personal Therapy Manager batteries. This screen replaces the Home screen when the batteries are depleted. Refer to “Inserting or replacing the Personal Therapy Manager batteries” on page 81.</td>
</tr>
</tbody>
</table>
Therapy Menu screen

The Therapy Menu screen (Figure 3.3) provides access to the Therapy information screens (Figure 3.11).

![Therapy Menu screen](image)

Figure 3.3 Therapy Menu screen.

Therapy Information screens

Therapy Information screens contain the drug and dosage information for your infusion system. The Therapy Information screens allow you to:

- check when your pump needs to be refilled
- view drug information
- view dosage information
- view lockout interval information
Notes:

- The Home screen also displays the refill date.

- The refill date is updated each time you activate a bolus dose or access therapy or alarm information. Periodically check your refill date, and make sure to visit your doctor before that date.

Checking therapy information

1. From the Home screen, press the right arrow on the Navigator key to select the Therapy Menu screen (Figure 3.3).

2. Press the Selector key. The Pump Search screen appears (Figure 3.4), the Communication light blinks, and a tone repeats.

Note: Pressing the Selector key when the Cancel icon appears stops the request for therapy information.
3. Place the Personal Therapy Manager over your pump with the screen facing outward (Figure 3.5).

![Figure 3.4 Pump Search screen.](image)

![Figure 3.5 Place the Personal Therapy Manager over your pump.](image)
Note: If you have difficulty reaching your pump or seeing the Personal Therapy Manager screen, your doctor can order an optional detachable antenna for you. Refer to page 76.

4. Move the Personal Therapy Manager around in the area of your pump until the Communication light remains On and the tone stops sounding.

When the Personal Therapy Manager finds your pump, the Pump Communication screen (Figure 3.6) appears, the Communication light remains On, and the tone stops sounding.

Note: Pressing the Selector key \( \odot \) when the Cancel icon appears stops the communication.

Figure 3.6 Pump Communication screen.
5. Hold the Personal Therapy Manager steady over your pump.

**Note:** After you attempt to update therapy information, the Personal Therapy Manager has ten seconds to establish communications with the pump. If communication is not established in ten seconds, the Communication Unsuccessful screen appears (Figure 3.20) and three descending tones sound.

![Communication Unsuccessful screen](image)

**Figure 3.7** Communication Unsuccessful screen.

6. If the communication is successful, a Therapy Information screen appears (Figure 3.11 through Figure 3.11) and three ascending tones sound. If the
Communication Unsuccessful screen (Figure 3.7) appears, return to step 2 on page 48.

**Note:** After three unsuccessful attempts, the Therapy Menu screen appears.

7. Press the up ▲ or down ▼ arrow on the Navigator key to view therapy information on the Therapy Information screens (Figure 3.8 through Figure 3.11).

8. Press the Selector key ○ to return to the Therapy Menu screen.

**Figure 3.8** Therapy Information screen—Refill Date.
How long a lockout interval lasts (10 minutes)

Maximum number of bolus doses in a day (6)

Figure 3.9 Therapy Information screen—Lockout Interval.

Amount of drug your pump delivers in a bolus dose (167 micrograms)

Drug in your pump (Morphine)

Figure 3.10 Therapy Information screen—Patient Bolus Dose.

Amount of drug your pump delivers in a day (5.000 milligrams)

Drug in your pump (Morphine)

Figure 3.11 Therapy Information screen—Dosage.
Alarm Menu screen

The Alarm Menu screen (Figure 3.12) provides access to pump alarm information and Personal Therapy Manager error information.

Figure 3.12 Alarm Menu screen.

No alarms or errors

If your pump has no alarms and your Personal Therapy Manager has no errors, the Pump OK screen appears (Figure 3.13).

Figure 3.13 Pump OK screen.
Call Doctor screens

Your Personal Therapy Manager provides detailed information about pump alarms and Personal Therapy Manager errors.

If a Call Doctor screen (Figure 3.14) or Pump Alarm Details screen (Figure 3.15) appears, call your doctor as soon as possible. Your doctor will ask you questions about information on the Personal Therapy manager screen.

Pump alarms

An alarm sounds from the pump when certain critical and noncritical events occur in your infusion system. The pump alarm volume cannot be changed.

- A critical alarm is a dual-tone alarm. A critical alarm requires attention by your doctor and means that therapy will stop soon.
• A noncritical alarm is a single-tone alarm. A noncritical alarm requires that you notify your doctor and means that therapy will stop at some future point.

If your pump has an alarm, the Call Doctor - Pump Alarm screen appears on your Personal Therapy Manager (Figure 3.14). Call your doctor as soon as possible.

**Figure 3.14** Call Doctor - Pump Alarm screen.

Your Personal Therapy Manager can store five Pump Alarm Details screens (Figure 3.15). The number of Pump Alarm Details screens depends on the number of pump alarms. Alarm screens appear in order of priority.
If your Personal Therapy Manager has a problem, the Call Doctor - Personal Therapy Manager Error screen may appear (Figure 3.16). Call your doctor as soon as possible.

**Figure 3.16** Call Doctor - Personal Therapy Manager Error screen.
Checking alarm information

1. From the Home screen, press the right arrow on the Navigator key to select the Alarm Menu screen.

2. Press the Selector key. The Pump Search screen appears (Figure 3.17), the Communication light blinks, and a tone repeats.

   **Note:** Pressing the Selector key when the Cancel icon appears stops the request for alarm information.

3. Place the Personal Therapy Manager over your pump with the screen facing outward (Figure 3.18).
4. Move the Personal Therapy Manager around in the area of your pump until the Communication light remains On and the tone stops sounding.

Figure 3.18 Place the Personal Therapy Manager over your pump.

Note: If you have difficulty reaching your pump or seeing the Personal Therapy Manager screen, your doctor can order an optional detachable antenna for you. Refer to page 76.
When the Personal Therapy Manager finds your pump, the Pump Communication screen (Figure 3.19) appears, the Communication light remains On, and the tone stops sounding.

**Note:** Pressing the Selector key when the Cancel icon appears stops the communication.

![Figure 3.19 Pump Communication screen.](image)

5. Hold the Personal Therapy Manager steady over your pump.

**Note:** After you attempt to update alarm information, the Personal Therapy Manager has ten seconds to establish communications with the pump. If communication is not established in ten seconds, the Communication Unsuccessful screen
appears (Figure 3.20) and three descending tones sound.

![Communication Unsuccessful screen.](image)

**Figure 3.20** Communication Unsuccessful screen.

6. If the Communication Unsuccessful screen appears, return to Step 2 on page 58 to repeat the alarm information update.

**Note:** After three unsuccessful attempts, the Alarm Menu screen appears.

If the communication is successful, one of the following screens appears:

- Pump OK screen (Figure 3.13)
- Call Doctor - Pump Alarm screen (Figure 3.14)
- Call Doctor - Personal Therapy Manager Error screen (Figure 3.16)
7. If the Call Doctor - Pump Alarm screen appears, press the up ▲ or down ▼ arrow on the Navigator key to view alarm information on the Pump Alarm Details screen(s) (Figure 3.15).

8. Press the Selector key ⊙ to return to the Alarm Menu screen.

Summary of screen icons

Table 3.3 describes icons that appear on the screen of your Personal Therapy Manager.
### Table 3.3 Personal Therapy Manager screen icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📞</td>
<td>Call your doctor</td>
<td>🚨</td>
<td>Attention</td>
</tr>
<tr>
<td>🕉</td>
<td>Alarm</td>
<td>🎧</td>
<td>Bolus</td>
</tr>
<tr>
<td>🎧</td>
<td>Bolus activated</td>
<td>🎧</td>
<td>Bolus denied</td>
</tr>
<tr>
<td>🎧</td>
<td>Bolus dose information</td>
<td>🕒</td>
<td>Time remaining before next bolus dose, or please wait</td>
</tr>
<tr>
<td>✔</td>
<td>Proceed (using the Selector key)</td>
<td>🔽</td>
<td>Go back (using the Selector key)</td>
</tr>
<tr>
<td>✗</td>
<td>Cancel (using the Selector key)</td>
<td>1/4</td>
<td>Screen count (eg, screen one of four)</td>
</tr>
<tr>
<td>⬅️</td>
<td>Navigator key directional arrows</td>
<td>🔊</td>
<td>Audio On</td>
</tr>
<tr>
<td>🔫</td>
<td>Audio Off</td>
<td>🔍</td>
<td>Contrast</td>
</tr>
</tbody>
</table>
### Table 3.3 Personal Therapy Manager screen icons (Continued)

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Position Personal Therapy Manager over pump" /></td>
<td>Position Personal Therapy Manager over pump</td>
</tr>
<tr>
<td><img src="image" alt="Communication in progress" /></td>
<td>Communication in progress</td>
</tr>
<tr>
<td><img src="image" alt="Communication unsuccessful" /></td>
<td>Communication unsuccessful</td>
</tr>
<tr>
<td><img src="image" alt="Personal Therapy Manager" /></td>
<td>Personal Therapy Manager</td>
</tr>
<tr>
<td><img src="image" alt="Pump" /></td>
<td>Pump</td>
</tr>
<tr>
<td><img src="image" alt="Refill date information (calendar always displays 1)" /></td>
<td>Refill date information (calendar always displays 1)</td>
</tr>
<tr>
<td><img src="image" alt="Daily dose information" /></td>
<td>Daily dose information</td>
</tr>
<tr>
<td><img src="image" alt="Lockout information" /></td>
<td>Lockout information</td>
</tr>
</tbody>
</table>
4 Components and maintenance
Personal Therapy Manager components

The Personal Therapy Manager has a screen to display information and keys to enter or access information (Figure 4.1).

- **Screen**—The screen displays information about your pump, Personal Therapy Manager, and therapy.

**Figure 4.1** The Personal Therapy Manager.
**Note:** Chapter 3 describes icons that appear on the screen of your Personal Therapy Manager.

- **Power/Backlight key**
  - Turns the Personal Therapy Manager On and Off.
  - Turns the screen backlight On and Off. To illuminate the screen under dark or limited lighting conditions, hold the Power/Backlight key for about 2 seconds.

- **Bolus Request key**—Sends a request for a bolus dose to your pump.

- **Communication light**
  - Blinks while the Personal Therapy Manager searches for your pump.
  - Maintains a steady light when the Personal Therapy Manager communicates with your pump.
• **Selector key**
  
  Allows you to interact with your pump and Personal Therapy Manager when a Selector key icon is present.

  Selector key icons:

  **Proceed icon** — Allows you to select screens and functions.

  **Go-back icon** — Allows you to return to the one of the four Menu screens.

  **Cancel icon** — Allows you to cancel an operation.

• **Navigator key** — Allows you to select screens and settings by pressing the up , down , left , and right arrows on the Navigator key.
How the Personal Therapy Manager works

The Personal Therapy Manager communicates with your pump by sending signals to and receiving signals from the pump. In order to communicate with the pump, the Personal Therapy Manager must be placed over the pump with the screen facing outward (Figure 4.8). Communication screens, tones, and lights tell you if communication is successful or unsuccessful.

Notes:

• The internal antenna is toward the back of the Personal Therapy Manager.

• A detachable antenna is an option for patients who have difficulty reaching their pump. Refer to page 76.
Setup information

Your doctor must setup the Personal Therapy manager before you use it for the first time.

**Personal Therapy Manager batteries**

Your Personal Therapy Manager is powered by two alkaline AAA batteries.

Battery life depends on how often you use the Personal Therapy Manager. Typically, new batteries provide 4–6 weeks of use.

**Checking the battery levels**

1. Check the Personal Therapy Manager battery level icon on the Home screen (Figure 4.2).

![Figure 4.2 Home screen.](image)
2. Compare the battery level icons to the descriptions in Table 4.1.

**Table 4.1 Battery level icon descriptions**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🍃</td>
<td>Batteries are fully charged.</td>
</tr>
<tr>
<td>🍃</td>
<td>Batteries are okay and at 75 percent.</td>
</tr>
<tr>
<td>🍃</td>
<td>Batteries are okay and at 50 percent.</td>
</tr>
<tr>
<td>🍃</td>
<td>Batteries are okay and greater than 25 percent.</td>
</tr>
<tr>
<td>🍃</td>
<td>Batteries are depleted. Change batteries.</td>
</tr>
</tbody>
</table>

**Note:** To make sure that you can interrogate your pump and activate a bolus dose at any time, always have new alkaline AAA batteries available.
Turning the audio On or Off

1. From the Home screen, press the left or right arrow on the Navigator key to select the Audio Menu screen (Figure 4.3).

![Audio On](image1)

![Audio Off](image2)

2. Press the Selector key.

3. Press the left or right arrow on the Navigator key to select audio On or audio Off (Figure 4.4).

Figure 4.3 Audio Menu screen.
4. Press the Selector key to return to the Audio Menu screen.

**Adjusting the screen contrast**

1. From the Home screen, press left or right arrow on the Navigator key to select the Contrast Menu screen (Figure 4.5).

**Figure 4.4** Audio Information screen.

**Figure 4.5** Contrast Menu screen.
2. Press the Selector key.
3. Press the left or right arrow on the Navigator key to adjust the contrast (Figure 4.6).

**Note:** A test patch indicates the contrast.

![Contrast Information screen](image)

4. Press the Selector key to return to the Contrast Menu screen.

**Utility Menu screen**

The Utility Menu screen provides your doctor with access to information about your pump system (Figure 4.7). Only your doctor may access this information.
Personal Therapy Manager antennas

The Personal Therapy Manager communicates with your pump by sending signals to and receiving signals from the pump. To send and receive the signals, an antenna must be placed over the pump.

The Personal Therapy Manager uses one of two types of antennas:

• An internal antenna
• An optional detachable antenna
Internal antenna

The internal antenna is toward the back of the Personal Therapy Manager. Therefore, the Personal Therapy Manager screen must face outward when communicating with your pump (Figure 4.8).

![Internal antenna](image)

Figure 4.8 Internal antenna.

Optional detachable antenna

The detachable antenna is an option if you have difficulty reaching the pump. The detachable antenna allows you to see the Personal Therapy Manager screen while it communicates with your pump.
Connecting the detachable antenna

1. Place the antenna over your pump (Figure 4.9).

2. Pull the fabric of your clothing through the large opening in the antenna. Then, wedge the fabric in the narrow slit to secure the antenna in place (Figure 4.10).

**Figure 4.9** Place the antenna over your pump.
Figure 4.10 Pull the fabric through the slit (a) and wedge in place (b).

3. Push the antenna plug firmly into the antenna jack (▼) on the Personal Therapy Manager (Figure 4.11).

Figure 4.11 Insert the antenna plug into the antenna jack.
Using the detachable antenna

After the antenna is connected, follow the instructions for using the Personal Therapy Manager.

When you have finished using the Personal Therapy Manager, grasp the antenna plug and pull it out.

⚠️ Caution: Do not pull directly on the antenna cable to disconnect the cable from the device because this may damage the antenna cable.

Using the carrying case and labeling the Personal Therapy Manager

To protect your Personal Therapy Manager, store it in the carrying case. The carrying case has a pouch to hold the Personal Therapy Manager and the quick reference guide (Figure 4.12).

The case also has a loop on the back that attaches to a belt.
Figure 4.12 Insert the Personal Therapy Manager into the case.

Place an identification label on the back of your Personal Therapy Manager in case it is lost (Figure 4.13).

Figure 4.13 Place the adhesive label on the back of the Personal Therapy Manager.
Maintenance

Inserting or replacing the Personal Therapy Manager batteries

⚠️ Caution: If the device will not be used for several weeks, remove the batteries from the device. A battery left in the device may corrode, causing damage to the electronic components.

1. Open the battery compartment cover (Figure 4.14).
Figure 4.14 Opening the battery cover.

2. If you are replacing batteries, remove the depleted batteries.

3. Insert the new batteries as shown on the battery compartment label.

4. Close the battery compartment cover.

5. Dispose of old batteries according to local regulations.
Cleaning and care

⚠️ Caution: If the device will not be used for several weeks, remove the batteries from the device. A battery left in the device may corrode, causing damage to the electronic components.

• Handle your Personal Therapy Manager with care.

• Do not take the Personal Therapy Manager apart or tamper with it.

• Protect the Personal Therapy Manager from sharp blows or physical shocks. The Personal Therapy Manager is designed to withstand a short drop to a hard surface and still operate normally, even if the case is chipped or nicked.

• Clean the outside of the Personal Therapy Manager with a slightly damp cloth. Mild household cleaners will not damage the case or labels. To avoid damaging the device, do not immerse it in
Components and maintenance

liquid; do not clean it with bleach, nail polish remover, mineral oil, or similar substances.

- Do not allow moisture to get inside the device. The Personal Therapy Manager is water resistant, not waterproof, and water can damage the device.

- Clean the battery contacts periodically with a cotton swab dampened with alcohol. Do not use a pencil eraser or sandpaper.

- Replace low or depleted batteries.

- To conserve battery power, always turn Off your Personal Therapy Manager when you are not using it.
Battery and Personal Therapy Manager disposal

Dispose of depleted batteries and worn out devices according to local requirements. If you no longer need your Personal Therapy Manager, contact Medtronic or your doctor.

Safety and technical checks

Periodic safety and technical checks or periodic maintenance of the Personal Therapy Manager are not required. The Personal Therapy Manager contains no user-serviceable parts. If repair or service is needed, contact your clinician or a Medtronic sales office. Refer to the address on the back cover of this manual.

The serial number is located on a label within the battery compartment. This number identifies the Personal Therapy Manager. If you write or call Medtronic about your
Personal Therapy Manager, refer to this serial number.
## Specifications

### Table 4.2 Personal Therapy Manager materials and specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical materials in contact with human tissue:</td>
<td></td>
</tr>
<tr>
<td>• Case</td>
<td>Polycarbonate blend plastic resin</td>
</tr>
<tr>
<td>• Device label</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td>Power source</td>
<td>Two AAA alkaline batteries (non-rechargeable, LR03)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>9 °C to 43 °C (49 °F to 110 °F)</td>
</tr>
<tr>
<td>Temperature limitation</td>
<td>-34 °C to 57 °C (-30 °F to 135 °F)</td>
</tr>
<tr>
<td>Ingress protection</td>
<td>IP22 rating for solid objects greater than or equal to 12.5 mm, and for vertically dripping water when the device is tilted 15 degrees, per 60601-1-11.</td>
</tr>
<tr>
<td>Description</td>
<td>Specification</td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------------------------------------------</td>
</tr>
<tr>
<td>Size</td>
<td>Approximately 9.4 x 5.6 x 2.8 cm (3.7 x 2.2 x 1.1 inches)</td>
</tr>
<tr>
<td>Weight, including batteries</td>
<td>Approximately 111 g (3.9 oz.)</td>
</tr>
<tr>
<td>Battery life</td>
<td>4-6 weeks average for alkaline batteries</td>
</tr>
<tr>
<td>Service life</td>
<td>Up to 5 years</td>
</tr>
</tbody>
</table>

* For a complete list of materials in contact with human tissue, contact your doctor. The Personal Therapy Manager is latex free.

b Batteries should be removed from the device for storage or transport.
5 Troubleshooting
Possible problems and solutions

This chapter will help you if you are experiencing problems with your Personal Therapy Manager. It also provides information on when to call your doctor.

Note: If you cannot solve a problem or if your problem is not described here, contact your doctor.
### Table 5.1 Troubleshooting problems

<table>
<thead>
<tr>
<th>Problem</th>
<th>Causes and Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The pump alarm is sounding.</td>
<td>Your infusion system requires your attention.</td>
</tr>
<tr>
<td></td>
<td>Check your pump alarms (for instructions, refer to “Checking alarm information” on page 58), then call your doctor and read the alert screen message number.</td>
</tr>
<tr>
<td>You cannot turn On your Personal Therapy Manager.</td>
<td>One or more Personal Therapy Manager batteries is missing, depleted, or inserted incorrectly.</td>
</tr>
<tr>
<td></td>
<td>Check that the batteries are inserted with the correct polarity, or replace the Personal Therapy Manager batteries.</td>
</tr>
<tr>
<td></td>
<td>Your Personal Therapy Manager may have a hardware or software problem.</td>
</tr>
<tr>
<td></td>
<td>If you think the Personal Therapy Manager is not working correctly, call your doctor.</td>
</tr>
</tbody>
</table>
Troubleshooting 5

Table 5.1 Troubleshooting problems (Continued)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Causes and Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>You cannot successfully activate a bolus dose.</td>
<td>You have tried to activate too many bolus doses in a day, or you have tried to activate a bolus dose during a lockout interval.</td>
</tr>
<tr>
<td></td>
<td><strong>Wait until the lockout interval is over, then try bolus dose activation again.</strong></td>
</tr>
<tr>
<td></td>
<td>Your Personal Therapy Manager did not communicate with your pump.</td>
</tr>
<tr>
<td></td>
<td><strong>Reposition the Personal Therapy Manager over your pump, then try bolus dose activation again.</strong></td>
</tr>
</tbody>
</table>
You do not hear any tones with activities such as when the Personal Therapy Manager is searching for your pump or when a bolus dose is successfully activated.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Causes and Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The audio is turned Off.</td>
<td>Turn the audio On.</td>
</tr>
</tbody>
</table>

Table 5.1 Troubleshooting problems (Continued)
<table>
<thead>
<tr>
<th>Problem</th>
<th>Causes and Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>You cannot see the Communication light turn on or blink during communication.</td>
<td>The Personal Therapy Manager is too far away from your eyes. Your doctor can order an optional detachable antenna for you that allows you to hold the Personal Therapy Manager closer to your eyes. Refer to “Optional detachable antenna” on page 76.</td>
</tr>
<tr>
<td>Sunlight may be obscuring your view. Shade the light with your hand or move into a darker area.</td>
<td></td>
</tr>
</tbody>
</table>

Table 5.1 Troubleshooting problems (Continued)
### Table 5.1 Troubleshooting problems (Continued)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Causes and Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Communication Unsuccessful screen is displayed and you hear three descending tones.</td>
<td>The Personal Therapy Manager was not positioned over your pump during the communication attempt. <strong>Place the Personal Therapy Manager over your pump and try communication again.</strong> The Personal Therapy Manager was moved away from your pump before communication was completed. <strong>Place the Personal Therapy Manager over your pump and try communication again.</strong> Excessive electromagnetic interference (EMI) is present caused by computer monitors or other electronic equipment. <strong>Move away from or turn Off possible EMI sources such as TVs, computer monitors, cell phones, and motorized wheelchairs.</strong></td>
</tr>
</tbody>
</table>

---

**Troubleshooting 5**
### Table 5.1 Troubleshooting problems (Continued)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Causes and Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The depleted battery screen is displayed.</td>
<td>The Personal Therapy Manager batteries are depleted.</td>
</tr>
<tr>
<td></td>
<td>Replace the Personal Therapy Manager batteries.</td>
</tr>
<tr>
<td>Your Personal Therapy Manager falls or is dropped.</td>
<td>The Personal Therapy Manager is designed to withstand falls of short distances.</td>
</tr>
<tr>
<td></td>
<td>Turn On the Personal Therapy Manager to see if the device is working. If you think the Personal Therapy Manager is not working correctly, call your doctor.</td>
</tr>
</tbody>
</table>
### Table 5.1 Troubleshooting problems (Continued)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Causes and Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid was spilled onto the Personal Therapy Manager or the Personal Therapy Manager was dropped into water.</td>
<td>The Personal Therapy Manager is not waterproof, and water can damage the device.</td>
</tr>
<tr>
<td></td>
<td><strong>Immediately remove the Personal Therapy Manager from the water, then dry it with a towel dampened with clean tap water.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Remove the batteries, then allow the battery compartment to air dry at room temperature for 24 hours.</strong></td>
</tr>
<tr>
<td>Loss of symptom relief.</td>
<td>Your infusion system may have a hardware or software problem or your doctor may need to adjust the infusion system programming.</td>
</tr>
<tr>
<td></td>
<td><strong>Call your doctor.</strong></td>
</tr>
</tbody>
</table>
### Troubleshooting problems (Continued)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Causes and Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Out of the box screen is displayed.</td>
<td>Your Personal Therapy Manager is not coupled with your pump.</td>
</tr>
</tbody>
</table>
6 Additional information
Potential adverse events

In clinical studies of devices similar to the Personal Therapy Manager, the following reported adverse events were considered related to intrathecal morphine: nausea/vomiting, constipation, urinary retention, daytime drowsiness, itching, rash, excessive sleepiness, sleep difficulty, confusion, euphoria, withdrawal, excessive sweating, swelling caused by fluid retention, flushing of face/anxiety, diarrhea, dizziness, dry mouth, allergic reaction, confusion, hallucinations, leg weakness, fall, headache, flu-like symptoms, numbness after activating a dose, shortness of breath, taste distortion, and weight gain.
Contact Medtronic for additional information

Refer to the address and phone number on the back cover of this manual. Remember to have the serial numbers from the Personal Therapy Manager battery compartments available when you call.
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