

2



Check the use by date that is indicated on the test strip container next to the  symbol.

Use only test strips that are not past the use by date.

3

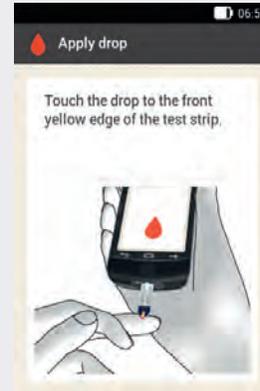


Insert the test strip into the test strip slot of the diabetes manager in the direction of the arrow. The device turns on automatically and the LED at the test strip slot lights up. If the tone for blood glucose tests is turned on, a signal is issued.

### Note

When the diabetes manager prompts you to apply a drop, you have approximately 2 minutes to apply blood to the test strip. If you do not apply any blood during this time, the diabetes manager turns itself off.

4



The **Apply drop** display appears. The test strip is ready for testing.

Put the diabetes manager aside.

- ▶ Do not allow any liquid to enter the test strip slot of the diabetes manager.
- ▶ Remove the test strip in case of a test strip error, and repeat the blood glucose test using a new test strip.
- ▶ Only apply blood to the test strip when the test strip is in the test strip slot and *Apply drop* is displayed.
- ▶ When a test strip is in the diabetes manager, the touchscreen and the buttons, including the power button, are deactivated. The buttons are activated again when you remove the test strip or the test is complete.
- ▶ Other ways to start a blood glucose test: In the **Main menu**, tap the **Test**  menu. If you want to perform a test in a dark environment, this procedure is beneficial because the light at the test strip slot is turned on.

### Obtaining blood



Use your finger pricker to prick the side of a fingertip.



Encourage a blood drop to form by gently massaging the finger in the direction of the fingertip.

### Applying blood

7



Touch the blood drop to the front yellow edge of the test strip.  
Do not put blood on top of the test strip.

8



The blood glucose test starts when enough blood has been drawn up by the test strip.

9



The test result is displayed and saved.

If the tone for blood glucose tests is turned on, a signal is issued.

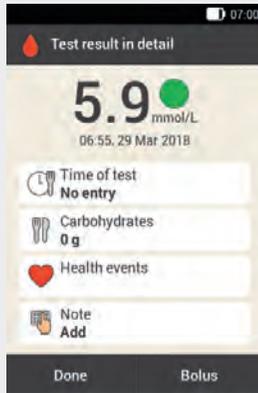
Tap **OK**.

### Note

For information on blood glucose results, see the section *Causes of Implausible Test Results* in this chapter.

- ▶ The blood glucose result can be used for bolus advice for a period of 15 minutes.

10



After approximately 3 seconds the [Test result in detail](#) display appears.

If you want to add information ([Time of test](#), [Carbohydrates](#), [Health events](#), [Note](#)) to the test result, follow the instructions in the following section.

If you want to complete the blood glucose test without adding any information or delivering a bolus, tap [Done](#).

If you want to deliver a bolus, tap [Bolus](#).

### Note

- ▶ You can subsequently change the added information in the *My data* menu.
- ▶ If bolus advice has been calculated based on information you added about health events and carbohydrates, you cannot change this information anymore.

11



Remove the used test strip and dispose of it according to local regulations.

## 5.3 Adding Information

You can save additional information for a test result to describe certain events in connection with this test result or particular characteristics of the test result.

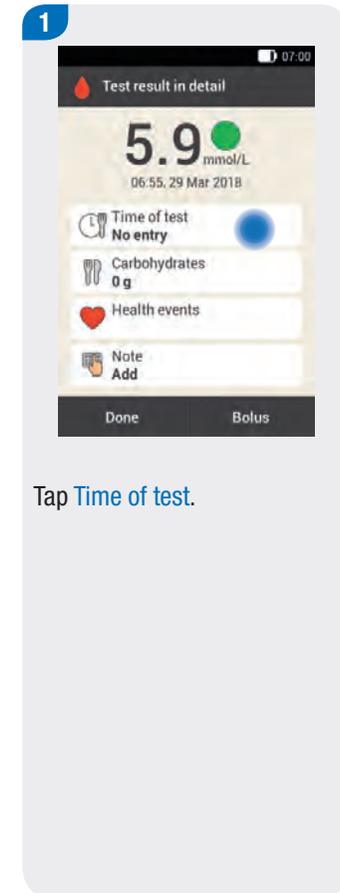
If you are using the bolus advice feature, see also the information in Chapter 7 *Bolus Advice*.

### WARNING

Incorrect entries for carbohydrate amounts or health events may lead to incorrect bolus advice.

### Entering the time of test

You can assign exactly one time of test to each blood glucose test. This information may be helpful later on for determining patterns in your blood glucose level.



Tap **Time of test**.

**2**



Tap the desired **Time of test** (for example, **After meal**).

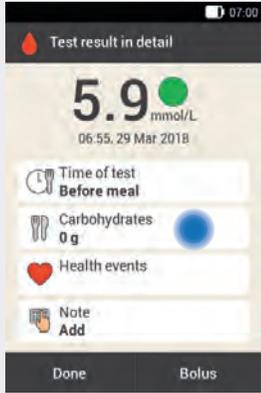
Tap **Save**.

## Entering carbohydrates

If you test your blood glucose in connection with a meal, it is advisable to save the carbohydrate amount you consumed.

If you are using bolus advice, the entered carbohydrate amount is used to calculate the insulin amounts you need.

**3**



Tap **Carbohydrates**.

**4**



Use **-** or **+** to set the amount of carbohydrates consumed.

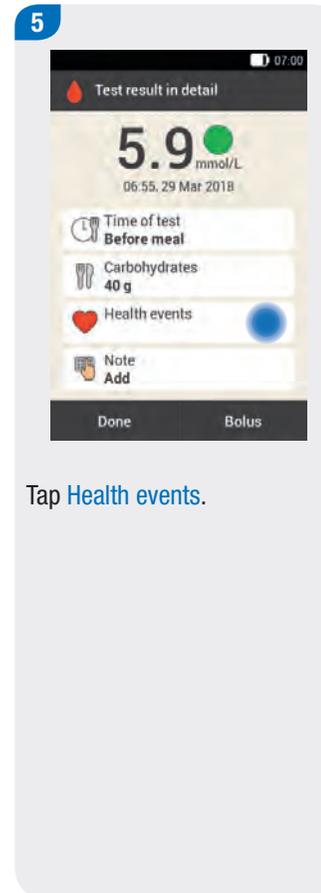
Tap **Save**.

## Setting health events

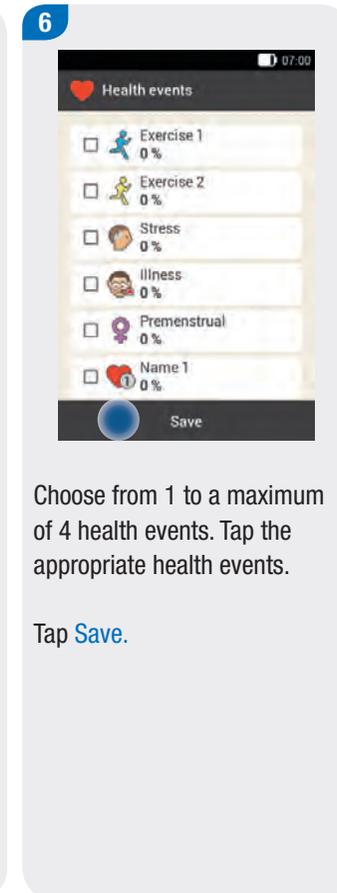
If you have set up bolus advice and select a health event, bolus advice will be adjusted by the percentage you specified.

If you have selected more than one health event in the [Health events](#) display, you will have to enter an overall percentage for the selected health events in the next step.

Discuss health event adjustments with your healthcare professional, who will help you to determine the suitable percentage for the adjustment.



Tap [Health events](#).

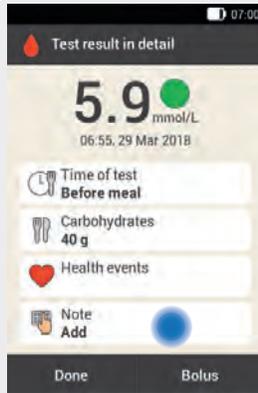


Choose from 1 to a maximum of 4 health events. Tap the appropriate health events.

Tap [Save](#).

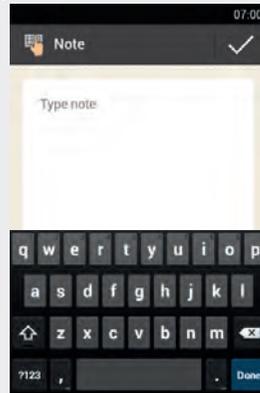
### Entering a note

10



In the [Test result in detail](#) menu, tap [Add Note](#).

11



You can enter a note (up to 280 characters) to save with this entry.

12



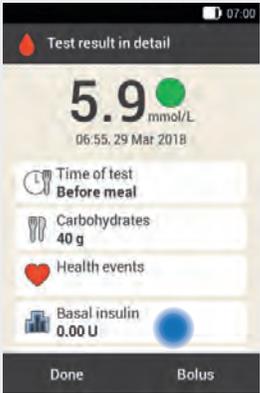
Tap [Done](#) if you do **not** want to deliver a bolus at this time.

If you want to deliver a bolus, tap [Bolus](#). For more information, see the chapters *Delivering a Bolus* and *Setting Up and Using Bolus Advice*.

### Injection mode (without micropump): Entering basal insulin

Injection mode allows you to save the amounts of basal insulin you injected in the diabetes manager. This is done most easily when you test your blood glucose. Note that the basal insulin you specify does not have any influence on bolus advice calculation.

**13**



If the diabetes manager is not connected to the micropump (injection mode): Tap [Basal insulin](#).

**14**



Use  $-$  and  $+$  to set the desired amount of basal insulin.

Tap [Save](#).

**15**



If you want to save all entries without delivering a bolus, tap [Done](#).

If you want to save all entries and deliver a bolus, tap [Bolus](#).

## 5.4 Evaluating Test Results

Blood glucose results reflect the current status of the blood glucose level. Test results are influenced by different factors, including type of diet, medication taken, state of health, stress and physical activity.

Certain substances can interfere with the blood glucose result. This can lead to falsely elevated or lowered test results. For more information, see the test strip package insert.

### Note

- ▶ Do not change your therapy based on single blood glucose results.
- ▶ If the test result is below or above the blood glucose range that you defined with your healthcare professional, consult your healthcare professional.
- ▶ If the test result does not match how you feel, for example, if it is unexpectedly low, eat fast acting carbohydrates. Afterwards, perform a control test with the Accu-Chek Aviva control solutions. Then repeat the blood glucose test. If the new test result still does not match how you feel, consult your healthcare professional.
- ▶ If your blood glucose level is very high without any apparent cause, check the micropump system for occlusions or leaks. Repeat the blood glucose test. If in doubt, replace the reservoir and the infusion assembly.
- ▶ If test results repeatedly do not match how you feel, check the items in the following section *Causes of Implausible Test Results*.

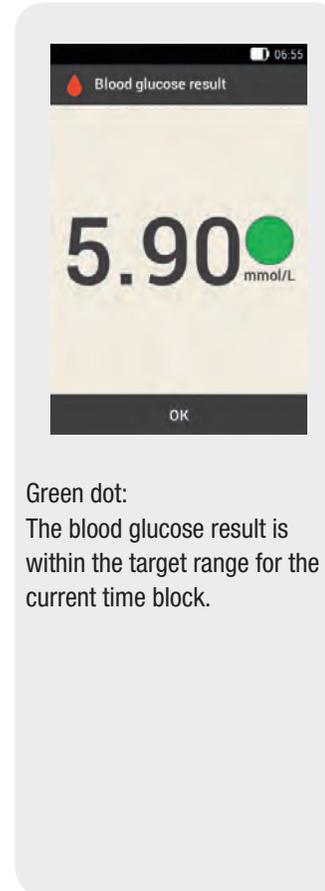
### 5.4.1 Colour Coding of Test Results

On the [Test result in detail](#) display, a coloured dot appears to the right of the test result. The colour of the dot depends on how high the test result is in relation to the defined blood glucose target range for the current time block.

Overview of meaning of colours:

Colour of dot	Blood glucose result is
 Blue, Hyper	above the hyper warning limit. It is strongly recommended that you test for ketones and test your blood glucose frequently.
 Blue	above your target range, but below your hyper warning limit.
 Green	within your target range.
 Yellow	below your target range, but above your hypo warning limit.
 Red, Hypo	below your hypo warning limit. It is strongly recommended that you eat a sufficient amount of fast acting carbohydrates immediately.

#### Green



#### Blue



**Blue with Hyper**



Blue dot with the supplement **Hyper**:  
The blood glucose result exceeds the hyper warning limit.

The diabetes manager displays a warning. Check blood glucose, ketones and insulin delivery.

**Yellow**



Yellow dot:  
The blood glucose result is below the target range for the current time block.

The blood glucose result does not fall below the hypo warning limit.

**Red**



Red dot with the supplement **Hypo**:  
The blood glucose result falls below the hypo warning limit.

- ▶ Eat fast acting carbohydrates, such as juice or dextrose, and, if required, also slow carbohydrates, such as a cereal bar or bread.
- ▶ Test your blood glucose again within the next half hour.
- ▶ If hypoglycaemia persists, test your blood glucose and consult your healthcare professional.

### 5.4.2 LO Display

Treat a very low blood glucose level as instructed by your healthcare professional. The LO display can also appear for technical reasons.

#### WARNING

The **LO** display may indicate a very low blood glucose value (possibly severe hypoglycaemia).

Being aware of the symptoms of low blood glucose can help you to better understand your test results and decide what to do.

Symptoms of low blood glucose (hypoglycaemia) may include:

- ▶ Anxiety, shakiness
- ▶ Sweating, headache
- ▶ Increased hunger, dizziness
- ▶ Pale skin colour, fatigue
- ▶ Sudden change in mood or irritability
- ▶ Difficulty concentrating, clumsiness
- ▶ Palpitations and/or confusion

### LO display



The blood glucose result is below the measuring range of the diabetes manager (less than 1.1 mmol/L). If you are experiencing a symptom of low blood glucose, proceed as follows:

- ▶ Eat fast acting carbohydrates, such as juice or dextrose, and, if required, also slow carbohydrates, such as a cereal bar or bread.
- ▶ Test your blood glucose again immediately and then again within the next half hour.
- ▶ If hypoglycaemia persists, test your blood glucose and consult your healthcare professional.

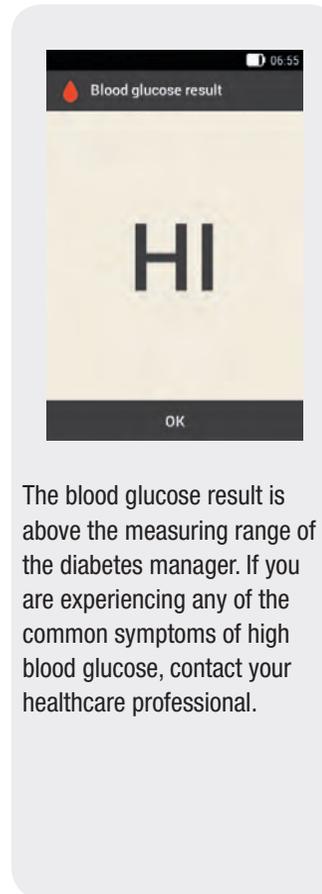
### 5.4.3 HI Display

Repeat the blood glucose test. If the repeated test also results in a HI display, proceed as instructed by your healthcare professional. Being aware of the symptoms of high blood glucose can help you to better understand your test results and decide what to do.

Symptoms of high blood glucose (hyperglycaemia) may include:

- ▶ Increased thirst
- ▶ Frequent urination
- ▶ Blurred vision
- ▶ Drowsiness
- ▶ Abdominal pain/cramps
- ▶ Nausea
- ▶ Dizziness

#### HI display



The blood glucose result is above the measuring range of the diabetes manager. If you are experiencing any of the common symptoms of high blood glucose, contact your healthcare professional.

#### **WARNING**

The **HI** display may indicate a very high blood glucose value (possibly severe hyperglycaemia). Proceed as instructed by your healthcare professional straight away and repeat the blood glucose test.

### 5.4.4 Causes of Implausible Test Results

If the diabetes manager repeatedly displays implausible test results or error messages, check the items listed below. Answer the questions in the following table.

If you cannot answer the questions in the table with yes, correct the respective item and repeat the test.

If you have observed all these items and are still experiencing implausible test results or error messages, contact your Customer Support and Service Centre.

Troubleshooting checks
Did you perform the blood glucose test as instructed in the User's Manual?
Did you wash your hands with warm water and soap and dry them thoroughly?
Did you only apply blood after <b>Apply drop</b> appeared on the screen?
Did you apply the blood drop immediately after it formed?
Are the test strips still valid (see the label on the test strip container next to the  symbol)?
Did you perform the test within the correct temperature range?
Did you observe the storage conditions for the diabetes manager and the test strips?
Did you observe the sources of error mentioned in the test strip package insert?
Was the cap on the test strip container always closed tightly?

### Troubleshooting checks

Did you use the test strip immediately after removing it from the test strip container?

Are the diabetes manager and test strips working properly?

If you are not sure whether the diabetes manager is working properly, perform a control test. For more information, see the section *Control Testing* in the chapter *Care and Maintenance* of this User's Manual.



### WARNING

Implausible test results and error messages may also be caused by the diabetes manager having fallen off of something. If this is the case, contact your Customer Support and Service Centre.

### Note

Check at regular intervals whether the micropump system has visible or tangible signs of damage. This applies especially if the system components fell off of something or were exposed to particular mechanical stress.

# 6 Delivering a Bolus

A bolus represents the required insulin amount to be delivered in addition to the basal rate, in order to cover the intake of food and correct an elevated blood glucose level. The bolus type and bolus amount are determined by your healthcare team's guidelines, your blood glucose level, your eating behaviour, your state of health as well as the type and duration of physical activity.

A prerequisite for insulin therapy is that you received qualified training and are able to understand and apply the basic principles of bolus calculation according to the specifications of your healthcare team.

## 6.1 Manual Bolus Delivery

You can deliver a bolus manually or by means of the bolus advice feature. This chapter explains manual bolus delivery with different bolus types. Moreover, it describes the options to cancel bolus delivery.

The entries required to program a manual bolus without using the bolus advice feature are made on the [Bolus input](#) display.

When you enter the total amount for a manual bolus, this insulin amount is always added to the correction part of a bolus. A correction part is always delivered as a standard bolus or as an immediate delivery part of a multiwave bolus.

## 6.2 Bolus Input Display

### Blood glucose result

The current test result is displayed.  
If no current test result exists, --- is displayed.

### Active insulin

If bolus advice is activated, the amount of active insulin that is to be considered is displayed. If there is no active insulin, --- is displayed.  
This display element is only visible if the bolus advice feature is activated.

### Carbohydrate amount

The carbohydrate amount entered after performing a blood glucose test is displayed.  
If no carbohydrate amount was entered, --- is displayed.

### Total amount

In this entry field, you can enter the total amount for the bolus.  
The total amount is the sum of correction bolus and meal bolus.

### Correction bolus

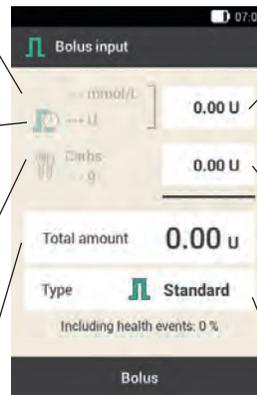
Tap this entry field to enter the insulin amount needed to bring a blood glucose value outside the target range back into the target range.

### Meal bolus

Tap this entry field to enter the insulin amount to compensate for the food intake.

### Bolus type

Tap this element to select one of the following bolus types: standard bolus, extended bolus, multiwave bolus, quick bolus, pen/syringe.



Note the following for bolus input:

- ▶ When the **Bolus input** display appears for the first time, there is no bolus amount specified. You must enter the bolus amount.
- ▶ If you first set the correction bolus or the meal bolus, the total bolus amount is deactivated and cannot be adjusted. The value, however, is updated accordingly.
- ▶ Take the following into account when you enter the total amount:
  - The entry fields for correction bolus and meal bolus are deactivated.
  - If you increase the total amount, the value for the correction bolus is increased accordingly.
  - If you reduce the total amount, the value for the meal bolus is reduced, if one exists. Once the meal bolus reaches “0”, the correction bolus is reduced accordingly.

## 6.3 Bolus Types

You can choose from the following bolus types on the **Bolus input** display:

- ▶ Standard bolus
- ▶ Extended bolus
- ▶ Multiwave bolus

In addition, you can choose a quick bolus, a customised bolus and a bolus with pen or syringe.

## Delivering a Bolus

Symbol	Name	Description
	Standard bolus	The standard bolus delivers the programmed insulin dose all at once. Use this bolus for foods that contain fast acting carbohydrates, such as cake or bread. Use the standard bolus if you want to correct an elevated blood glucose level.
	Extended bolus	The extended bolus does not deliver the bolus insulin all at once, but over a longer period of time. Use the extended bolus for meals that are digested slowly, for example, foods with complex carbohydrates or foods that are high in fat and protein. An extended bolus can also be helpful for meals that extend over a longer period of time (for example, a buffet).
	Multiwave bolus	A multiwave bolus combines a standard bolus with an extended bolus. A part of the bolus amount is delivered immediately, whereas the other part is delivered over a specified period of time. Use this bolus for meals that contain both fast and slowly digestible carbohydrates, proteins and fats. You can also use this bolus for meals with several courses. If you are planning to eat slowly digestible carbohydrates but have an elevated blood glucose level before the meal, you can use this bolus type as well. In this case, you program the immediate part of the bolus to correct the blood glucose level and the extended part for the carbohydrates.

## 6.4 Programming a Bolus

You can program a bolus in different ways. Start with one of the following three options:

**1**



**Test result > Bolus**

Option 1:  
After testing your blood glucose: On the **Test result in detail** display, tap **Bolus**.

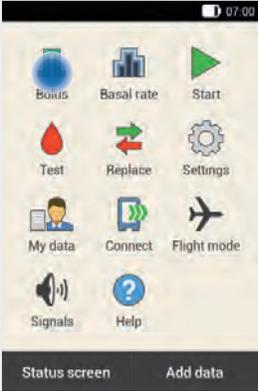
or



**Status screen > Bolus**

Option 2:  
On the **Status screen**, tap **New bolus** or the **+** symbol.

or



**Main menu > Bolus**

Option 3:  
In the **Main menu**, tap the **Bolus** menu.

## Delivering a Bolus

**2**



Tap **Manual bolus**.

**3**



Tap the entry fields that are appropriate to your situation to enter the correction bolus, meal bolus or total amount.

**4**



Use **-** and **+** to set the desired amount for the meal bolus.

Tap **Save**.

**5**

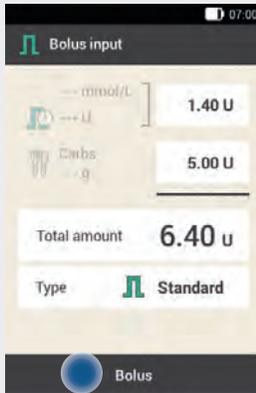


Use **-** and **+** to set the desired amount for the correction bolus.

Tap **Save**.

### 6.4.1 Standard Bolus

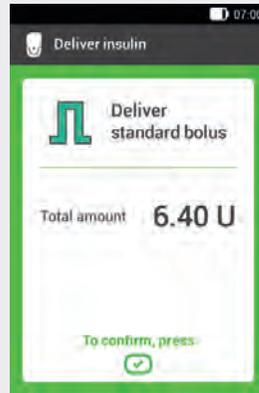
1



The *Standard* bolus type is set as the default in the factory settings.

Tap [Bolus](#).

2



To confirm this step and deliver the standard bolus, press the insulin button lit up in green  below the diabetes manager screen.

When the diabetes manager is ready to deliver basal or bolus insulin, the insulin button below the screen lights up green.

The [Deliver insulin](#) display with the green frame always appears when you deliver a bolus using the diabetes manager.

Check the displayed total amount before pressing the insulin button.

3

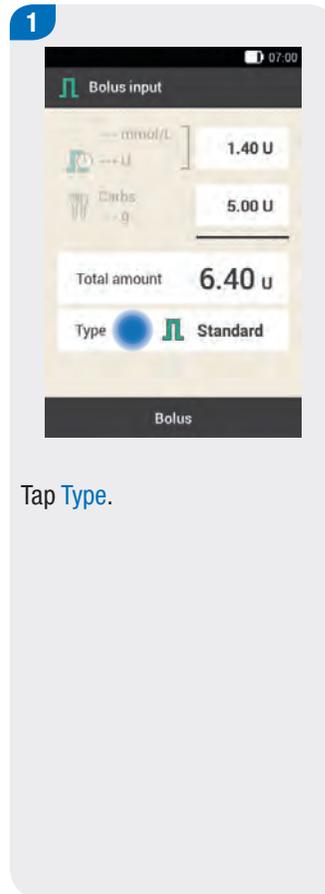


The micropump delivers the standard bolus. The Status screen is displayed with the current bolus information.

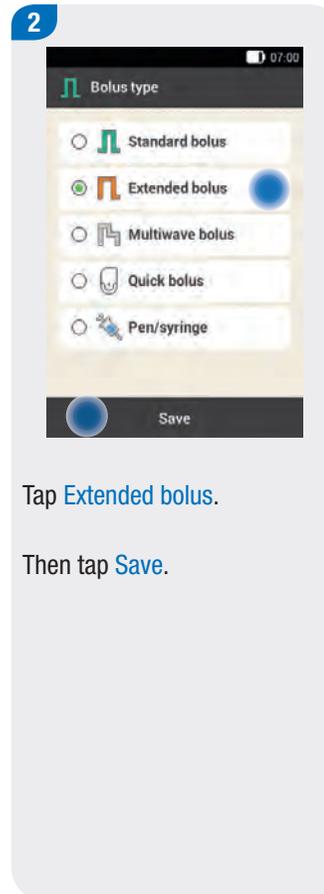
### 6.4.2 Extended Bolus

The duration of bolus delivery can be programmed in 15-minute increments for a period of up to 24 hours. Delivery begins immediately after you confirm the bolus. Throughout bolus delivery, the Status screen shows the remaining time and remaining amount of the extended bolus.

The extended bolus must not be used to correct blood glucose values. Therefore, you cannot select this bolus type if the bolus you programmed contains correction insulin.

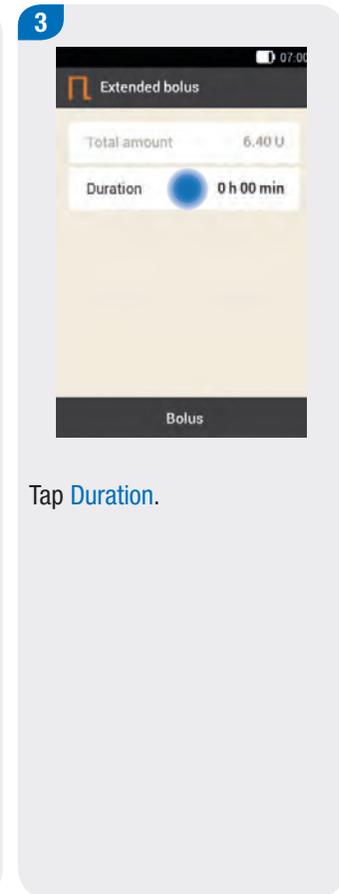


Tap **Type**.



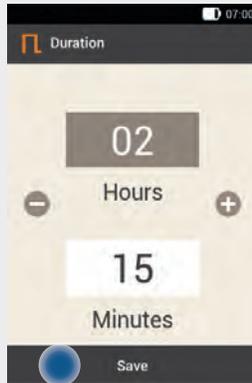
Tap **Extended bolus**.

Then tap **Save**.



Tap **Duration**.

4



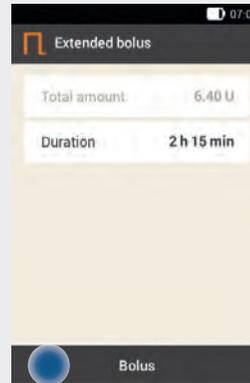
Use **-** and **+** to set the hours and minutes for the extended bolus duration.

Tap **Save**.

### Note

The duration you set for the extended bolus will be used as the default setting when the extended bolus is delivered the next time.

5



Tap **Bolus**.

6

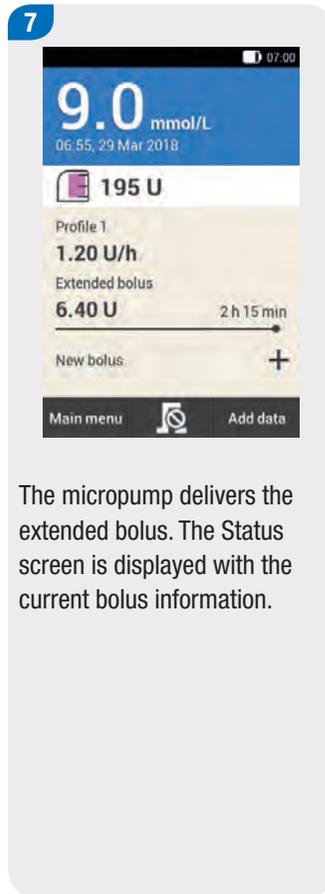


To confirm this step and deliver the standard bolus, press the insulin button lit up in green  below the diabetes manager screen.

When the diabetes manager is ready to deliver basal or bolus insulin, the insulin button below the screen lights up green.

The **Deliver insulin** display with the green frame always appears when you deliver a bolus using the diabetes manager.

Check the displayed Total amount and the duration before pressing the insulin button.



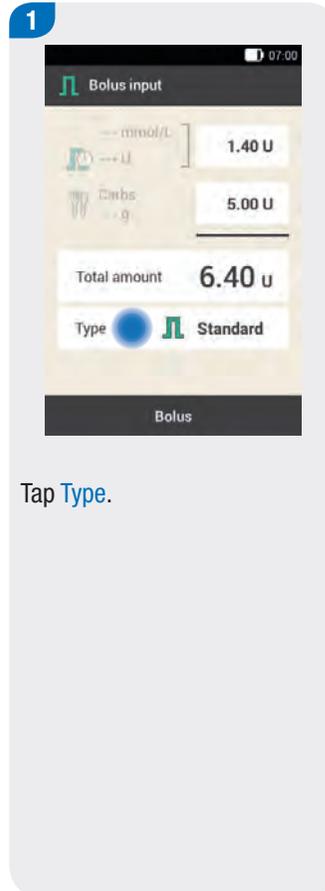
### Note

You can add a standard bolus to an ongoing extended bolus and one additional extended bolus or a multiwave bolus.

### 6.4.3 Multiwave Bolus

The duration of the extended bolus delivery can be programmed in 15-minute increments for a period of up to 24 hours. Delivery begins immediately after you confirm the bolus.

You can add an extended bolus to an ongoing multiwave bolus. As soon as the immediate part of a multiwave bolus was delivered, you can add a standard bolus or another multiwave bolus.



#### Note

Start with the entries for the correction insulin and the meal bolus. If you enter the total amount first, you cannot make any entries for the correction bolus and the meal bolus. The entry fields will be deactivated (greyed out).

**3**



Multiwave bolus

Total amount 6.40 U

Immediate amount 0.00 U

Delayed amount 0.00 U

Duration 0 h 00 min

Bolus

Tap **Immediate amount** to enter the bolus part that is to be delivered immediately.

**4**



Immediate amount

3.00 U

Save

Use **-** and **+** to set the **Immediate amount**.

The **Immediate amount** must not be less than the part set for the correction insulin.

Tap **Save**.

**5**



Multiwave bolus

Total amount 6.40 U

Immediate amount 3.00 U

Delayed amount 0.00 U

Duration 0 h 00 min

Bolus

Tap **Delayed amount** to enter the bolus part that is to be delivered in a delayed fashion.

**6**



Delayed amount

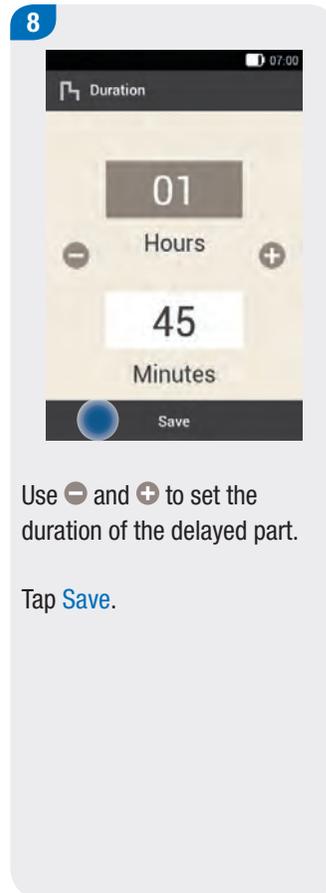
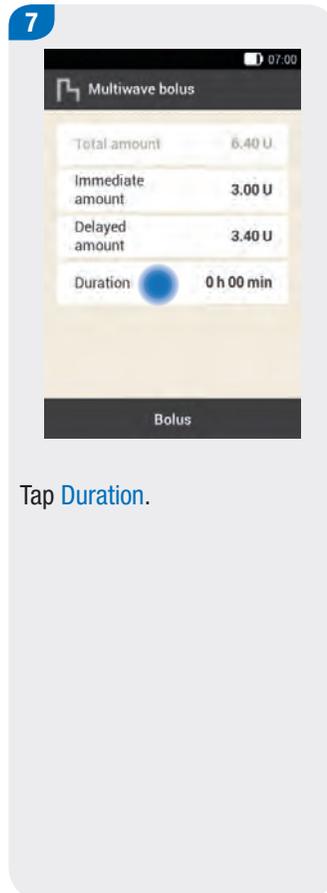
3.40 U

Save

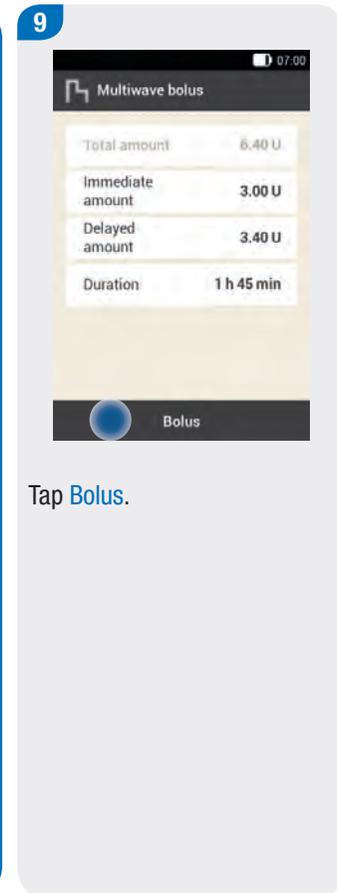
Use **-** and **+** to set the **Delayed amount**.

The **Delayed amount** must not be greater than the part set for the meal bolus.

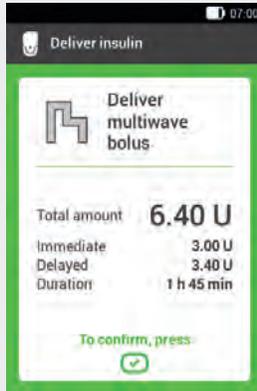
Tap **Save**.

**Note**

The duration you set for the extended bolus will be used as the default setting when the multiwave bolus is delivered the next time.



10



To confirm this step and deliver the multiwave bolus, press the insulin button lit up in green  below the diabetes manager screen.

When the diabetes manager is ready to deliver basal or bolus insulin, the insulin button below the screen lights up green.

The **Deliver insulin** display with the green frame always appears when you deliver a bolus using the diabetes manager.

Check the displayed Total amount, Immediate amount, Delayed amount and the duration before pressing the insulin button.

11



The micropump delivers the multiwave bolus. The Status screen is displayed with the current bolus information.

## 6.5 Quick Bolus

A quick bolus is a bolus that can be programmed and delivered using the quick bolus buttons on the micropump.

As with the standard bolus, the quick bolus delivers the programmed insulin dose all at once. The quick bolus is suitable for meals that contain mainly carbohydrates that can be digested rapidly as well as for the correction of an elevated blood glucose level.

A quick bolus allows a bolus to be discreetly delivered if the diabetes manager is not available or cannot communicate with the micropump. This is the case, for example, when flight mode is turned on. The bolus amount can only be programmed in defined increments.

The basic setting for the quick bolus increment is 0.2 units. Thus, you can set the bolus amount to 0.2 units, 0.4 units, 0.6 units and so on. If necessary, you can change the quick bolus increment to 0.2, 0.5, 1.0 or 2.0 units. See the chapter *Changing Settings*.

### WARNING

- ▶ Make sure that you know and use the set quick bolus increment. If you use a different quick bolus increment to the one you intended, an incorrect insulin dose will be delivered.
- ▶ Note that a quick bolus is always considered to be a correction bolus.

### Note

Fill in the increment you set for the quick bolus on the flap card of the perforated cover page.

### 6.5.1 Programming a Quick Bolus

**1**



Tap **Type**.

**2**



Tap **Quick bolus**.

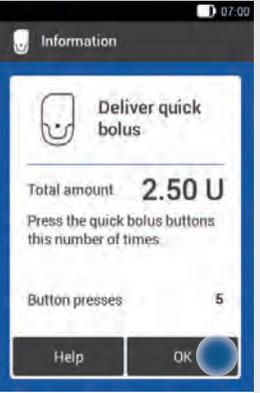
Then tap **Save**.

**3**



Tap **Bolus**.

**4**



Check the total amount and follow the instructions given in the information.

Tap **OK**.

## 6.5.2 Delivering a Quick Bolus

### Note

If you made entries for the quick bolus on the *Bolus input* display, they must be confirmed by the micropump within a period of 15 minutes. Otherwise, these entries may not be assigned correctly. As a result, the entries that cannot be synchronised by the micropump system will be discarded.



Press and hold both quick bolus buttons for approximately 3 seconds until you hear a sequence of signals.



Simultaneously press both quick bolus buttons repeatedly until the desired insulin amount is set. The micropump issues a signal every time the buttons are successfully pressed.

### Example

With a quick bolus increment of 0.5 units, you must press the quick bolus buttons 5 times to deliver an insulin amount of 2.5 U.

### Note

- ▶ If you have not pressed the quick bolus buttons for approximately 3 seconds, the entry phase ends and the micropump provides acoustic feedback. A signal is issued for each programmed quick bolus increment.
- ▶ If you do not confirm the acoustic feedback in Step 4 by pressing the quick bolus buttons, no bolus will be delivered and a sequence of signals for cancelling the bolus will be issued.

3



Check whether the acoustic feedback corresponds to the desired insulin amount.

4



If the acoustic feedback corresponds to the bolus amount you require, press the quick bolus buttons to confirm insulin delivery until you hear a sequence of signals.

### Note

Enter the insulin and carbohydrate amounts associated with the quick bolus in the logbook. Be sure to assign correction and mealtime boluses correctly. Otherwise, subsequent data entries in the logbook as well as future bolus advice calculations might not be correct.

## 6.6 Delivering the Bolus with a Pen or Syringe

If you want to deliver a bolus with a pen or syringe, you can document the insulin amounts delivered on the [Bolus input](#) display.

The boluses that you deliver with a pen or syringe are saved in the diabetes manager database. The entered insulin amounts are evaluated for future bolus advice calculations. This improves the result of further bolus advice calculations.

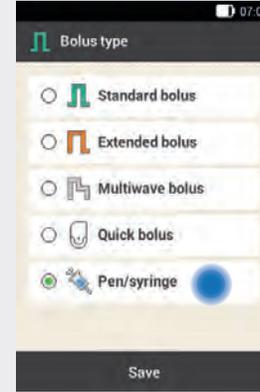
**1**



Select one of the 3 options for bolus delivery that are mentioned in the section *Standard Bolus*. Perform the appropriate steps until the [Bolus input](#) menu is displayed.

Tap [Type](#).

**2**



Tap the [Pen/syringe](#) bolus type.

## Delivering a Bolus

**3**



Tap the desired entry field.

If you tap **Total amount**, the entered insulin amount is added to the correction bolus.

**4**



Use **-** and **+** to set the insulin amount you want to deliver using a pen or syringe.

Tap **Save**.

**5**



Tap **Bolus**.

**6**



If the total amount to be delivered is correct, tap **OK**.

7



Inject the insulin units with a pen or syringe.

## 6.7 Cancelling a Bolus

### Example



To cancel an ongoing bolus, press the  button on the Status screen or in the Main menu.  
If this is not possible, remove the micropump from the infusion assembly.

### 6.7.1 Cancelling Bolus Programming

#### Standard, extended and multiwave bolus

While programming, press the  button to go back to the previous step and enter a new value.

#### Quick bolus

If you do not confirm the quick bolus by pressing both quick bolus buttons within 5 seconds of the acoustic feedback for the insulin amount, programming of the quick bolus will be cancelled automatically.

## 6.7.2 Cancelling a Bolus During Delivery

If you have the diabetes manager at hand: Press the  button during bolus delivery to cancel the bolus. Bolus delivery is cancelled and the diabetes manager displays warning W38 **Bolus cancelled**.

If you do not have the diabetes manager at hand: Remove the micropump from the infusion assembly for as long as the bolus is being delivered. Then place the micropump back onto the infusion assembly.

## 6.7.3 Cancelling a Bolus Using the *Cancel bolus* Menu

In the Main menu and on the Status screen, you can cancel a bolus by tapping .

In the **Bolus** menu, you can tap the **Cancel bolus** item. Here you can cancel one bolus or all ongoing boluses.

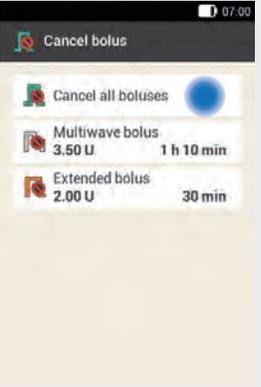
## Cancelling all boluses

**1**



On the Status screen or in the Main menu, tap .

**2**

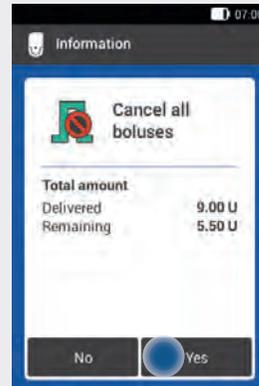


If you want to cancel all ongoing boluses at the same time, tap **Cancel all boluses**.

**Note**

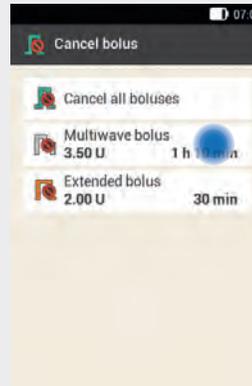
The display in Step 2 only appears if more than one bolus is programmed.

3



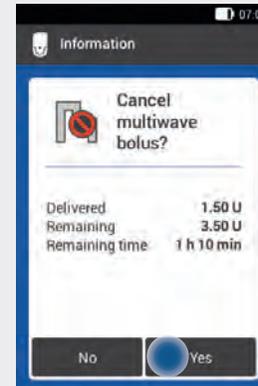
If you want to cancel all boluses now, tap **Yes**.

4



Tap the bolus you want to cancel.

5



Tap **Yes** if you want to cancel the bolus now.

## 6.8 Delaying Bolus Delivery

In some situations (for example, if you have gastroparesis) it may be helpful to only start a bolus after you have started eating. You can use the delivery lag time setting to specify an interval between programming a bolus and the actual start of bolus delivery.

Discuss using the delivery lag time setting with your healthcare team.

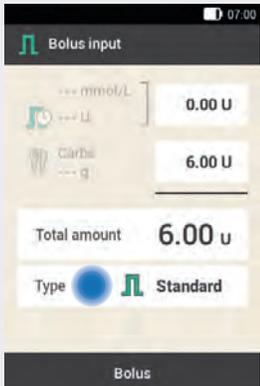
If you want to use the delivery lag time, you must activate this feature in the *Bolus settings* menu first (see chapter *Settings*).

### Note

If a bolus contains correction insulin, it is not possible to enter a delivery lag time. Correction insulin must always be delivered immediately.

### Setting the delivery lag time

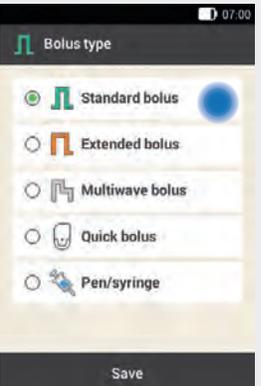
**1**



Select one of the 3 options for bolus delivery that are mentioned in the section *Standard Bolus*. Perform the appropriate steps until the *Bolus input* menu is displayed.

Tap *Type*.

**2**



Tap the required bolus type, for example, *Standard bolus*.

**3**

Tap **Bolus**.

**4**

Tap **Delivery lag time**.

**5**

Use **-** and **+** to set the **Delivery lag time**.

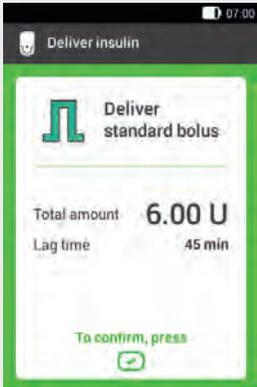
Tap **Save**.

**6**

Tap **Bolus**.

## Delivering a Bolus

**7**



Deliver insulin

Deliver standard bolus

Total amount **6.00 U**

Lag time 45 min

To confirm, press 

To confirm this step and deliver the standard bolus, press the insulin button lit up in green  below the diabetes manager screen.

**8**



9.0 mmol/L

06:55, 29 Mar 2018

 **195 U**

Profile 1

**1.20 U/h**

Standard bolus

**Lag time** 45 min

New bolus 

Main menu  Add data

The Status screen is displayed with the current bolus information and the set delivery lag time.

# 7 Bolus Advice

The bolus advice feature aims to bring your blood glucose level back into the target range defined for you, by delivering an insulin amount that was calculated in advance. The bolus advice feature of the diabetes manager consists of two components: First, a recommendation for a correction bolus to adjust your blood glucose level if it is not within the target range. Secondly, a recommendation for a meal bolus that covers your food intake. However, the bolus advice feature only makes a recommendation if you set up (configured) bolus advice beforehand.

## 7.1 Overview

The bolus advice feature of the diabetes manager consists of two components: First, a recommendation for a correction bolus to adjust your blood glucose level if it is not within the target range. Secondly, a recommendation for a meal bolus that covers the carbohydrates contained in your meals.

The recommendation for the correction bolus is positive if your current blood glucose level is above your target range. If, at the same time, a meal bolus is recommended, a negative correction bolus lowers the total insulin amount of bolus advice.

If your blood glucose value is below the hypo warning limit, no bolus advice is issued. Instead, you receive a recommendation to consume a certain carbohydrate amount to bring your blood glucose level back to within the target range.

### Advantages of bolus advice:

- ▶ Bolus advice is calculated based on the current blood glucose value, your carbohydrate intake and other factors.
- ▶ Insulin from a previous bolus that is still acting and difficult to be estimated manually, is taken into account automatically.
- ▶ Therapy schemes can be adhered to more consistently.
- ▶ Blood glucose values can be kept within the target range for a longer time period more easily.

**Note the following:**

- ▶ The micropump system is not able to judge your current situation independently of your own assessment.
- ▶ Insulin that was not delivered via the micropump system can only be taken into account if you specify this in the diabetes manager.
- ▶ Bolus advice cannot correct any input errors. This is particularly true for the carbohydrate amount entered.
- ▶ Warnings are displayed for entries that exceed possible limit values.
- ▶ No warning message is displayed if the data is possible (within the acceptable ranges) but incorrect. Therefore, it is important to carefully review all of your entries.

**Terminology for setting bolus advice**

**Carbohydrate ratio**

The carbohydrate ratio defines the insulin amount necessary to compensate for a certain amount of ingested carbohydrates.

**Insulin sensitivity**

The insulin sensitivity defines the insulin amount required to lower your blood glucose level by a certain value.

**Target range**

The target range describes which blood glucose values are considered acceptable when fasting or before a meal. The target range is specified by the lower and upper BG thresholds.

**Meal rise**

During or after meals, an increase in the blood glucose level is considered normal within a certain range, even if a bolus was delivered. Enter the maximum increase in your blood glucose level that is to be tolerated without an additional correction bolus.

**Snack size**

The snack size defines a carbohydrate threshold; when this is exceeded, a meal rise should be taken into account. Thus, the snack size indicates which carbohydrate amounts should not be considered as regular meals with an expected and tolerated meal rise.

### Acting time

The acting time is the period of time from the start of bolus delivery until the blood glucose level is expected to return to the target level.

You can specify the duration of the acting time according to your needs. The total acting time includes the offset time.

### Offset time

The offset time is the period of time after which the insulin is expected to start lowering the blood glucose level in the body.

### Time blocks

Time blocks allow you to divide the day into different time periods according to your individual lifestyle.

Time blocks help you and your healthcare professional to recognise more easily how your blood glucose level is affected by your daily activities and lifestyle.

### Note

- ▶ Discuss intended changes to your bolus advice options with your healthcare professional in advance.
- ▶ After bolus advice is set up, you can change the options or turn off bolus advice, if required.
- ▶ If you turn off bolus advice, all bolus advice options will be deleted.

## 7.2 Setting Up Bolus Advice

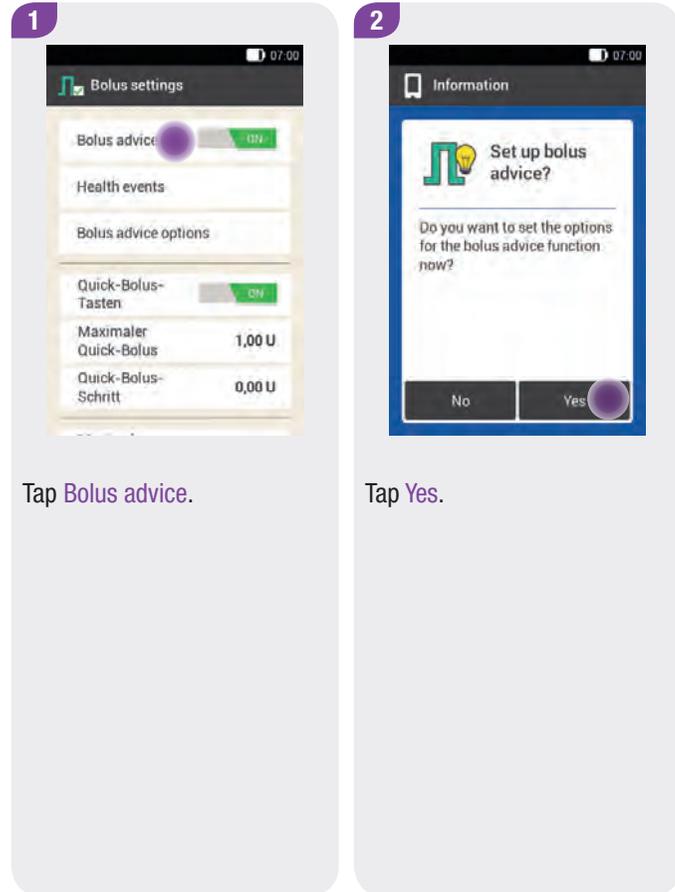
### Main menu > Settings > Bolus settings

After you turn on bolus advice, you set up the time blocks first. All time blocks add up to a time period of 24 hours. The diabetes manager factory settings contain 5 default time blocks. You can set up a maximum of 8 time blocks.

The bolus advice feature uses the time blocks that you have already set while executing the setup wizard. If required, you can change the time block settings.

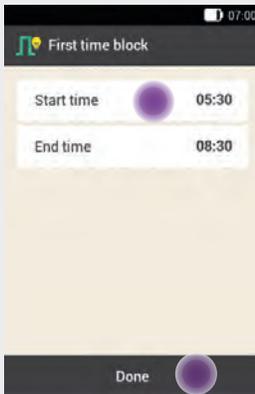
 **WARNING**

Discuss intended changes to your bolus advice options with your healthcare professional in advance.



## Defining a time block

1



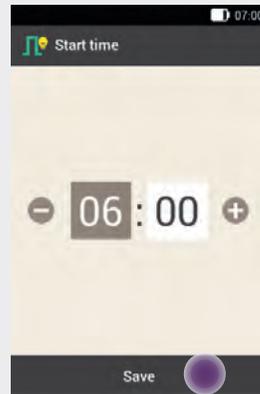
The display for defining the first time block appears.

Tap **Start time**.

If you want to keep the start and end times, tap **Done**.

The  button is deactivated.

2



Use  and  to set the **Start time** for the first time block.

The minutes can be set in 15-minute increments.

Tap **Save**.

3



Use  and  to set the **End time** for the first time block.

The minutes can be set in 15-minute increments.

Tap **Save**.

4



The changed start and end times for the first time block are displayed.

Tap **Done**.

### Setting the target range

**1**



Target range

Upper limit value 8.9 mmol/L

Lower limit value 3.9 mmol/L

These target range values are used for all time blocks. You can adjust the values for each time block later.

Next

Tap **Upper limit value**.

If you do not want to modify the limit values for the target range, tap **Next**.

**2**



Upper limit value

10.0

mmol/L

Save

Use **-** and **+** to set the **Upper limit value**.

Tap **Save**.

**3**



Lower limit value

3.3

mmol/L

Save

Use **-** and **+** to set the **Lower limit value**.

Tap **Save**.

**4**



Target range

Upper limit value 10.0 mmol/L

Lower limit value 3.3 mmol/L

These target range values are used for all time blocks. You can adjust the values for each time block later.

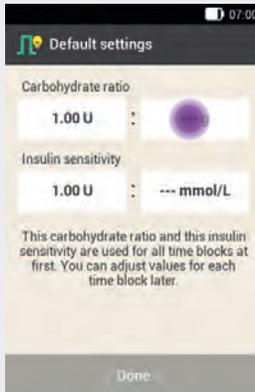
Next

The limit values currently set for the target range are displayed.

Tap **Next**.

## Defining the default settings

1



To define the default settings, tap the adjustment fields for the **Carbohydrate ratio**.

Then tap the adjustment fields for the **Insulin sensitivity**.

### Note

The **Done** button on the **Default settings** display remains deactivated (grey) until the entries for **Carbohydrate ratio** and **Insulin sensitivity** are complete.

### Example

Carbohydrate ratio:  
1.00 U : 10 g

In this example, one insulin unit compensates for 10 g of carbohydrates.

## Carbohydrate ratio

2



Use **-** and **+** to set the insulin units for the **Carbohydrate ratio**.

Tap **Save**.

3



Use **-** and **+** to set the carbohydrate amount for the **Carbohydrate ratio**.

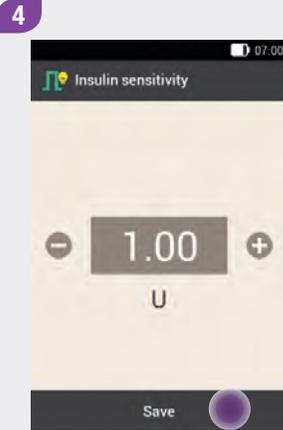
Tap **Save**.

**Example**

Insulin sensitivity:  
1.00 U : 2.2 mmol/L

In this example, one insulin unit lowers the blood glucose value by 2.2 mmol/L.

**Insulin sensitivity**



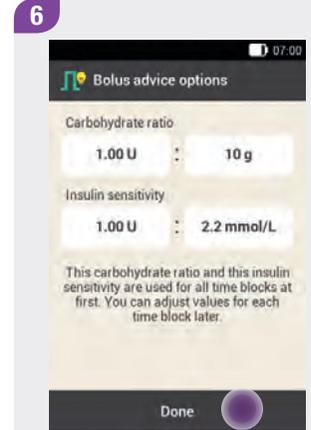
Use **-** and **+** to set the insulin units for the **Insulin sensitivity**.

Tap **Save**.



Use **-** and **+** to set the blood glucose value for the **Insulin sensitivity**.

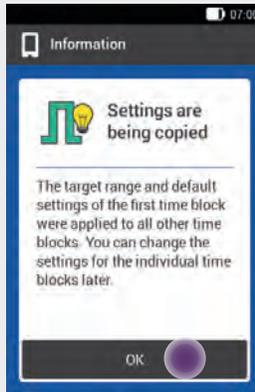
Tap **Save**.



Tap **Done**.

## Changing the time block settings

7



The default settings for carbohydrate ratio and insulin sensitivity are copied to all time blocks.

You can change the settings for each time block separately.

Tap **OK**.

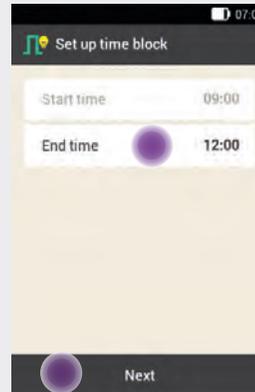
1



Tap the time block you want to change.

If you do not want to change the copied settings for the other time blocks, tap **Done**. Continue with the section *Setting health events*.

2



Tap **End time**.

### Note

You can change the start time for the first time block only.

Changes to the **Target range**, **Carbohydrate ratio** and **Insulin sensitivity** can be made for each time block.

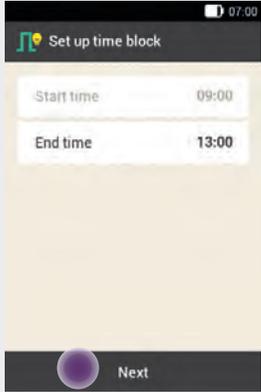
**3**



Set the **End time** for the selected time block.

Tap **Save**.

**4**



Tap **Next**.

**5**



Set the upper and lower limit values.

Tap **Next**.

**6**



Tap **Done** when you have completed the desired settings for all time blocks.

## Setting health events

Health events or your activities have an impact on your blood glucose level. Bolus advice calculation takes health events into account.

Each health event adjusts bolus advice by the percentage set by you. A positive percentage (+) increases the bolus amount and a negative percentage (-) decreases the bolus amount.

You can choose between 5 default health events and 3 customised health events:

- ▶ Exercise 1 
- ▶ Exercise 2 
- ▶ Stress 
- ▶ Illness 
- ▶ Premenstrual 
- ▶ Customised: Name 1-3 

You can also enter health events at a later time.

The percentage for a health event must be between -50 % and +50 %. The percentage can be changed in increments of 5 %. Discuss changes to your bolus advice options with your healthcare professional in advance.

### WARNING

Incorrectly entered health events may lead to inappropriate bolus advice.

### Example

You go for a run and create the customised health event *Run* with a percentage of -20 %.

When you select the *Run* health event during bolus calculation, the bolus amount is decreased by 20 %.

### Setting a health event

**1**



Tap the health event for which you want to make settings (for example, **Stress**).

**2**



Enter a **Percentage** for the selected health event.

Tap **Save**.

Repeat Steps 1 and 2 to set the percentage for other health events.

### Customised health event

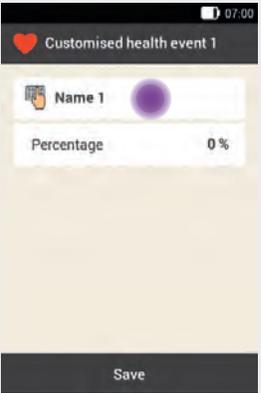
**3**



The **Health events** are displayed with the percentages that were set.

If you want to set a customised health event, tap .

**4**



Tap  to enter a name (for example, Run) for the **customised health event**.

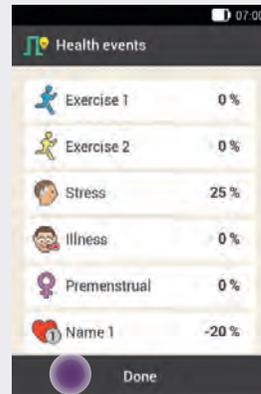
5



Use **-** and **+** to set the **percentage** for the customised health event.

Tap **Save**.

6



The **Health events** are displayed with the percentages that were set.

Tap **Done**.

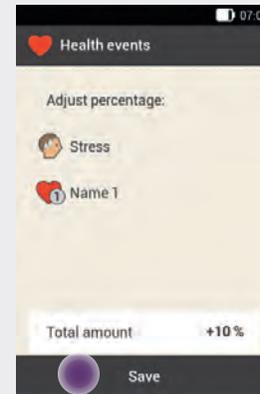
### Note

You can select a maximum of 4 health events.

If you have selected more than one health event, you will have to enter a total percentage for the selected health events in the next step.

Discuss health event adjustments with your healthcare professional, who will help you to determine the suitable percentage for the adjustment.

7

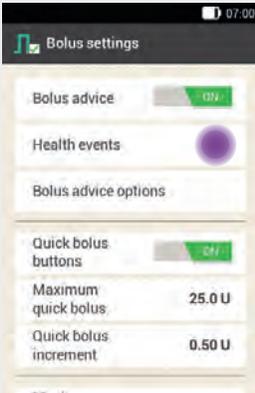


Specify a total percentage for the health events.

Tap **Save**.

### Changing percentages for health events

**1**



Tap **Health events**.

**2**



Tap the health event for which you want to make settings (for example, **Stress**).

**3**

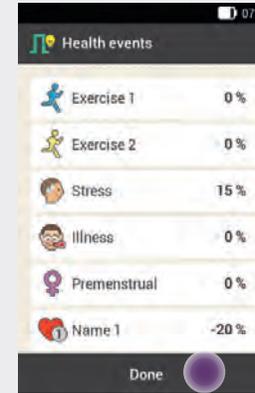


Enter a percentage for the selected health event.

Tap **Save**.

Repeat Steps 2 and 3 to set the percentage for other health events.

**4**



The **Health events** are displayed with the percentages that were set.

Tap **Done** after setting the health events.

## Bolus advice options

1



Tap **Meal rise**, **Snack size**, **Acting time** and **Offset time** to adjust the respective settings.

### Note

The **Done** button on the **Bolus advice options** display remains deactivated (grey) until the entries for **Meal rise**, **Snack size**, **Acting time** and **Offset time** are complete.

## Meal rise

2



Use **-** and **+** to set the meal rise value.

Tap **Save**.

## Snack size

3



Use **-** and **+** to set the snack size value.

Tap **Save**.

### Acting time

**4**



Use **-** and **+** to set the hours and minutes for the acting time.

Tap **Save**.

### Offset time

**5**



Use **-** and **+** to set the hours and minutes for the offset time.

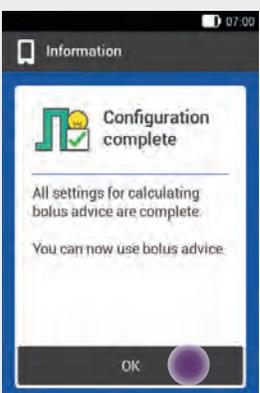
Tap **Save**.

**6**



Tap **Done** to complete the setup wizard.

**7**



All settings for calculating bolus advice are now complete.

Tap **OK**.

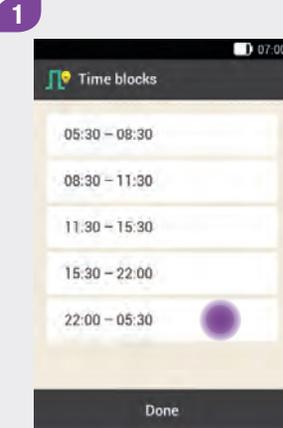
## 7.2.1 Adding a Time Block

This section describes how to add a new time block.

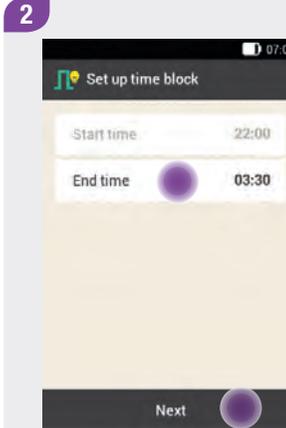
To add a time block, decrease the end time of the last time block.

After the new time block has been created, you may have to adjust the end time and other information for each time block.

### Adding time blocks



Tap the **last** time block.



Tap **End time** and change it to the desired end time (for example, from 05:30 to 03:30).

Tap **Next**.

### Note

- ▶ Decrease the **End time** of the last time block by any amount in order to create a new time block. This creates a new time block by splitting the last time block into 2 time blocks.
- ▶ However, do not decrease the **End time** until it equals the **Start time** because this will delete the time block.

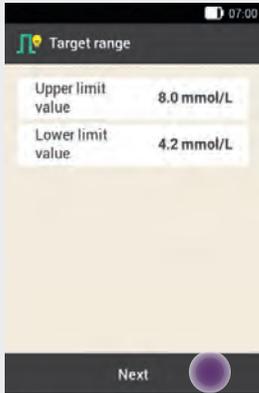
**3**



The last time block is split into two time blocks (for example, second to last time block 22:00–03:30, last time block 03:30–05:30).

Tap **Done**.

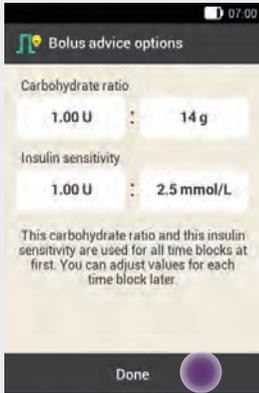
**4**



Set the **Upper limit value** and **Lower limit value** for the new time block.

Tap **Next**.

**5**



Set the **Carbohydrate ratio** and **Insulin sensitivity** for the new time block.

Tap **Done**.

**6**



It may be necessary to change the end times and settings of other time blocks.

Tap **Done** when you have finished editing the time blocks.

## 7.2.2 Deleting Time Blocks

This section describes how to delete one or more time blocks.

The first method to delete one or more time blocks is to merge time blocks.

### Deleting several time blocks

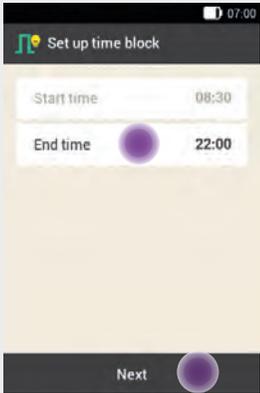
**1**



Select the first time block that is to be merged with one or more time blocks.

In this example, the three time blocks between 08:30 and 22:00 are being merged.

**2**



Increase the end time until it equals the end time of the last time block to be deleted.

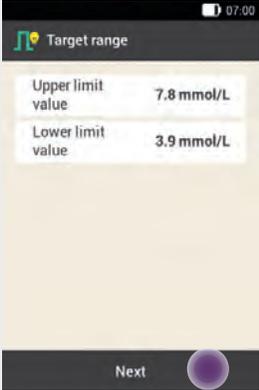
Tap **Next**.

**3**



Tap **Yes** if you want to delete the time blocks.

**4**



Target range

Upper limit value 7.8 mmol/L

Lower limit value 3.9 mmol/L

Next

Set the **Upper limit value** and **Lower limit value** for the merged time block.

Tap **Done**.

**5**



Bolus advice options

Carbohydrate ratio

1.00 U : 14 g

Insulin sensitivity

1.00 U : 2.5 mmol/L

This carbohydrate ratio and this insulin sensitivity are used for all time blocks at first. You can adjust values for each time block later.

Done

Set the **Carbohydrate ratio** and **Insulin sensitivity** for the merged time block.

Tap **Done**.

**6**



Time blocks

05:30 - 08:30

08:30 - 22:00

22:00 - 05:30

Done

It may be necessary to change the end times and settings of the remaining time blocks.

Tap **Done** when you have finished editing the time blocks.

### Deleting a single time block

The second method deletes a single time block by decreasing the end time of the time block until it is the same as its start time.

After time blocks have been deleted, it may be necessary to change the end times and other information for the remaining time blocks until all of the time blocks are set up the way you want them.

**1**



05:30 - 08:30

08:30 - 11:30

11:30 - 15:30

15:30 - 22:00

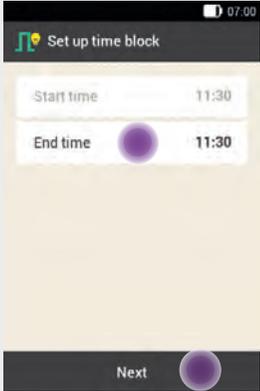
22:00 - 05:30

Done

Tap the time block to be deleted.

In this example, the time block from 11:30 to 15:30 is to be deleted.

**2**



Start time 11:30

End time 11:30

Next

Decrease the end time until it equals the start time.

Tap **Next**.

**3**



Information

Reset time blocks?

Do you want to reset all time blocks for bolus advice?

No Yes

Tap **Yes** if you want to delete the time block.

**4**



Target range

Upper limit value 7.5 mmol/L

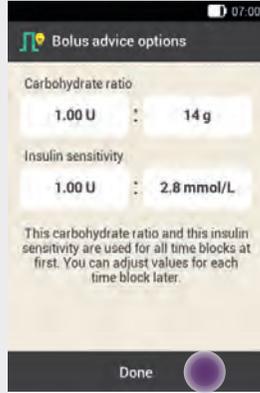
Lower limit value 3.6 mmol/L

Next

Set the **Upper limit value** and **Lower limit value** for the new time block.

Tap **Done**.

**5**



Bolus advice options

Carbohydrate ratio

1.00 U : 14 g

Insulin sensitivity

1.00 U : 2.8 mmol/L

This carbohydrate ratio and this insulin sensitivity are used for all time blocks at first. You can adjust values for each time block later.

Done

Set the **Carbohydrate ratio** and **Insulin sensitivity** for the merged time block.

Tap **Done**.

**6**



Time blocks

05:30 - 08:30

08:30 - 11:30

11:30 - 22:00

22:00 - 05:30

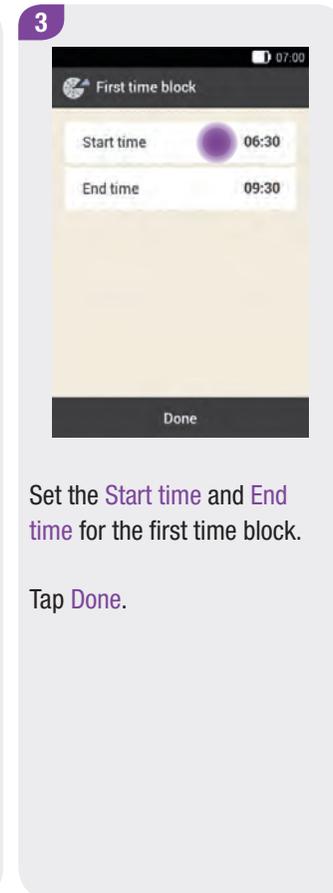
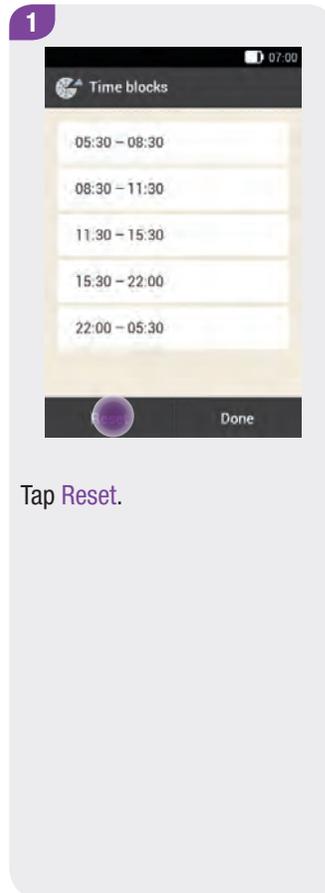
Done

It may be necessary to change the end times and settings of the remaining time blocks.

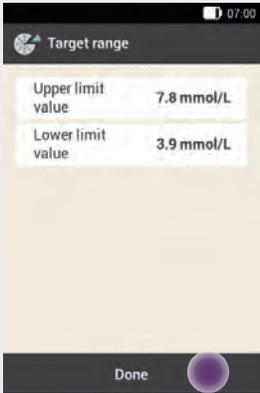
Once you have finished editing the time blocks, tap **Done**.

### 7.2.3 Resetting All Time Blocks

This section describes how to restore the settings for all time blocks to the factory settings and then re-enter them. Changing the start time of the first time block may be one reason for resetting all time blocks.



**4**



Target range

Upper limit value 7.8 mmol/L

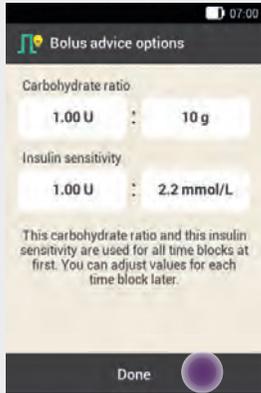
Lower limit value 3.9 mmol/L

Done

Set the default values for the **Upper limit value** and **Lower limit value**.

Tap **Done**.

**5**



Bolus advice options

Carbohydrate ratio

1.00 U : 10 g

Insulin sensitivity

1.00 U : 2.2 mmol/L

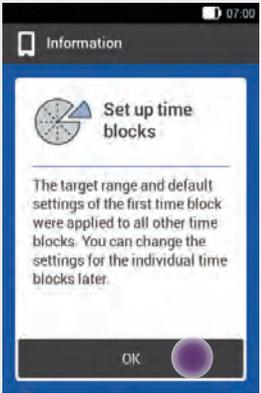
This carbohydrate ratio and this insulin sensitivity are used for all time blocks at first. You can adjust values for each time block later.

Done

Set the default values for the **Carbohydrate ratio** and **Insulin sensitivity**.

Tap **Done**.

**6**



Information

Set up time blocks

The target range and default settings of the first time block were applied to all other time blocks. You can change the settings for the individual time blocks later.

OK

Tap **OK**.

**7**



Time blocks

06:30 - 09:30

09:30 - 11:30

11:30 - 15:30

15:30 - 22:00

22:00 - 05:30

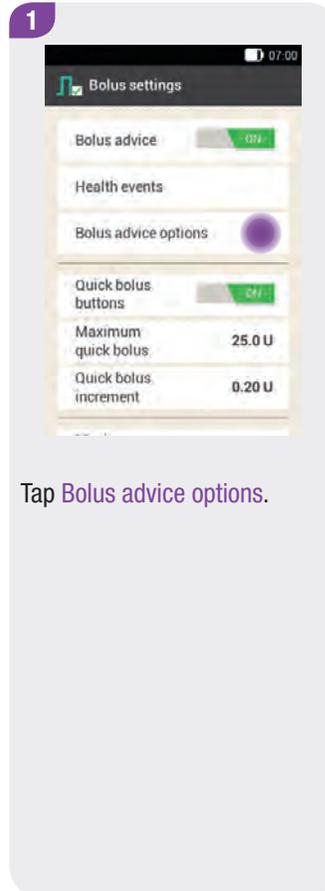
Reset Done

It may be necessary to change the end times and settings of the other time blocks.

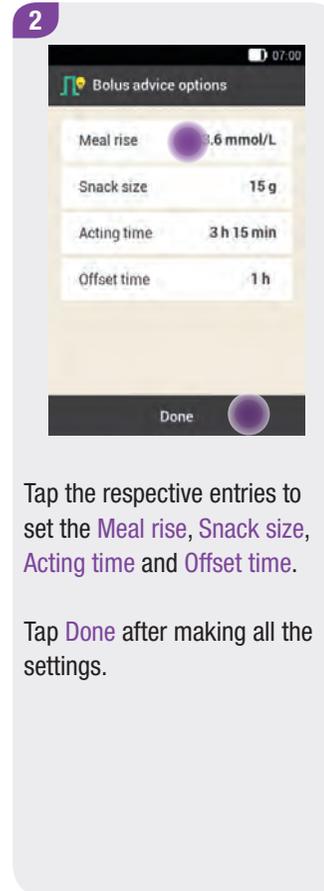
Tap **Done** when you have finished editing the time blocks.

## 7.2.4 Changing Bolus Advice Options

This section describes how to change the values for meal rise, snack size, acting time and offset time.



Tap **Bolus advice options**.



Tap the respective entries to set the **Meal rise**, **Snack size**, **Acting time** and **Offset time**.

Tap **Done** after making all the settings.

## 7.3 Using Bolus Advice

### Delivering a recommended bolus

You can use the bolus advice feature directly after testing your blood glucose. Note that a blood glucose result is only valid for bolus advice **within 15 minutes of the blood glucose test**.

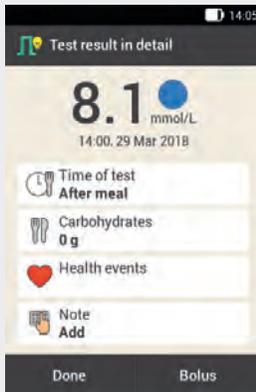
You can also call up bolus advice from the Status screen or Main menu.

### Additional information:

- ▶ The  symbol indicates that the bolus advice feature is turned on.  
If no bolus advice is set up, bolus advice is turned off or a manual bolus was delivered, the  symbol is displayed.
- ▶ If you deliver a bolus straight from the micropump, the information on the total bolus amount is taken into account for future bolus advice. However, the total bolus amount is considered as a correction bolus, and no meal rise is registered. If this bolus was used for food intake, you should edit the bolus in your logbook to assign the bolus part that was used for the carbohydrates. This ensures that you receive as accurate bolus advice as possible as a direct consequence (during acting time).
- ▶ If you provide values for [Blood glucose result](#), [Carbohydrates](#) and [Health events](#) to calculate bolus advice, you will obtain the best results. All entries are saved.

## Starting bolus advice after a BG test

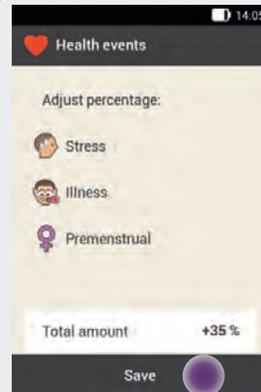
1



Tap the respective entries to add information on **Time of test**, **Carbohydrates** or **Health events**.

Tap **Bolus**.

2



Enter the percentage for the total amount if you have selected several health events.

Tap **Save**.

If you have entered only one or no health event, the **Health events** display will not appear.

3

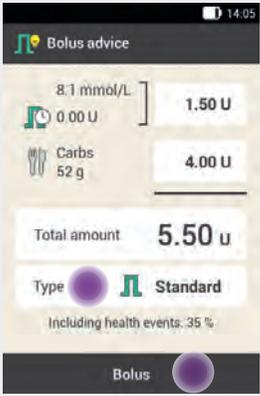


Tap **Bolus**.

The bolus advice feature calculates a suggestion and transfers the recommended values to the entry fields. Tap the respective entry fields if you want to change the suggested values.

### Selecting the bolus type

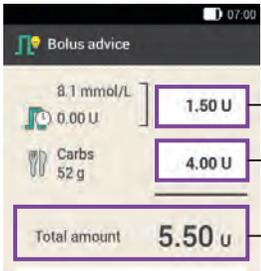
4



Tap **Type** to select the desired bolus type.

Tap **Bolus**.

### Changing bolus advice values



Correction bolus

Meal bolus, changed

Value has been updated

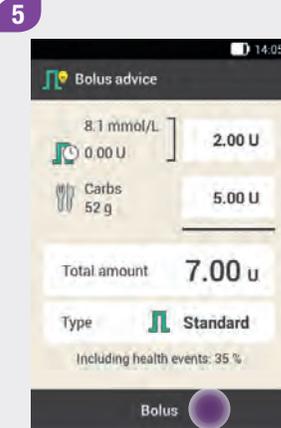
If you change the correction bolus or meal bolus first, the **Total amount** cannot be changed. The value, however, is updated accordingly (see figure).

If you change the **Total amount** first, the correction bolus and meal bolus cannot be changed.

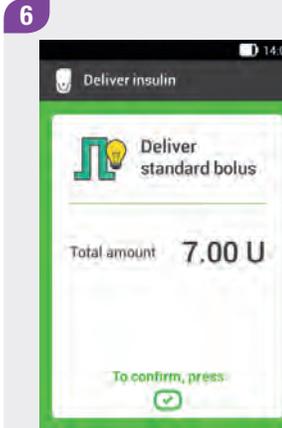
If you increase the **Total amount**, the **Correction bolus** is increased accordingly. If you decrease the **Total amount**, the meal bolus is decreased accordingly. Once the meal bolus reaches "0", the correction bolus is reduced accordingly.

**Note**

Not every bolus type can be selected, depending on the setting. You cannot select an extended bolus, for example, if a correction bolus is to be delivered.



Tap **Bolus**.

**Confirming the bolus**

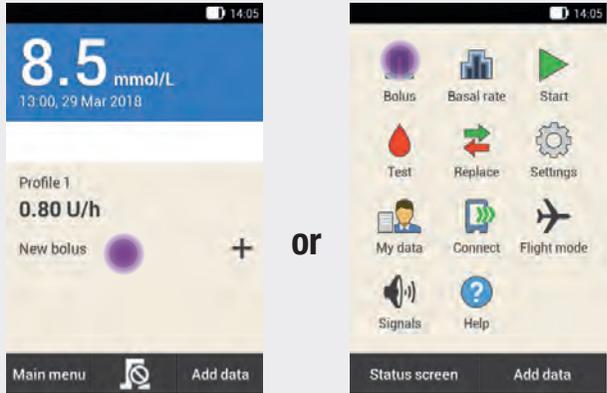
To confirm this step and deliver the standard bolus, press the insulin button lit up in green  below the diabetes manager screen.



The Status screen is displayed showing the current bolus information.

### Starting bolus advice without a BG test

**1**



On the **Status screen**, tap **New bolus** or the **+** symbol.

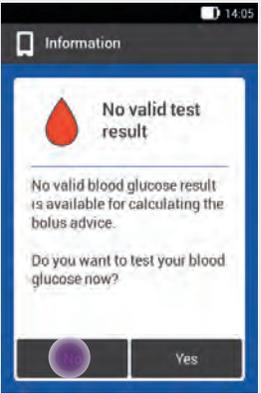
In the **Main menu**, tap the **Bolus** menu.

**2**



Tap **Bolus advice**.

**3**

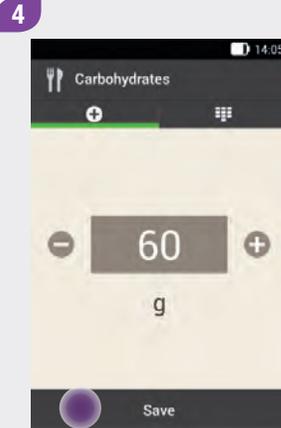


Tap **No** to obtain bolus advice without performing a blood glucose test.

**Note**

If no valid blood glucose result exists and you do not want to test your blood glucose, you can enter the carbohydrate amount you consumed. If you then tap **Bolus** on the **Bolus advice** display, a suggestion for a meal bolus is displayed.

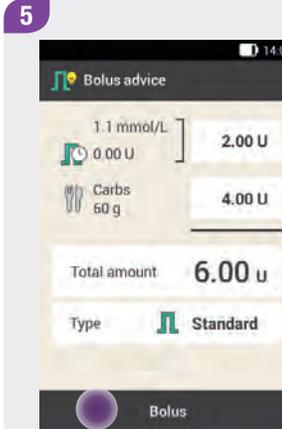
Enter a carbohydrate amount of up to 240 g.



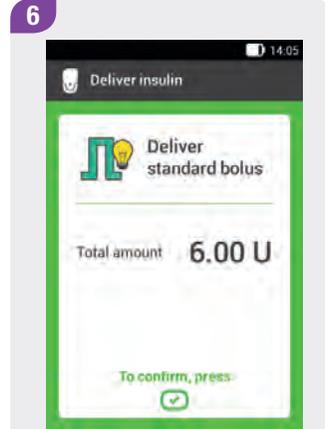
Enter the carbohydrates consumed.

To set the carbohydrates using the keyboard, tap .

Tap **Save**.

**Entering carbohydrates**

Tap **Bolus**.

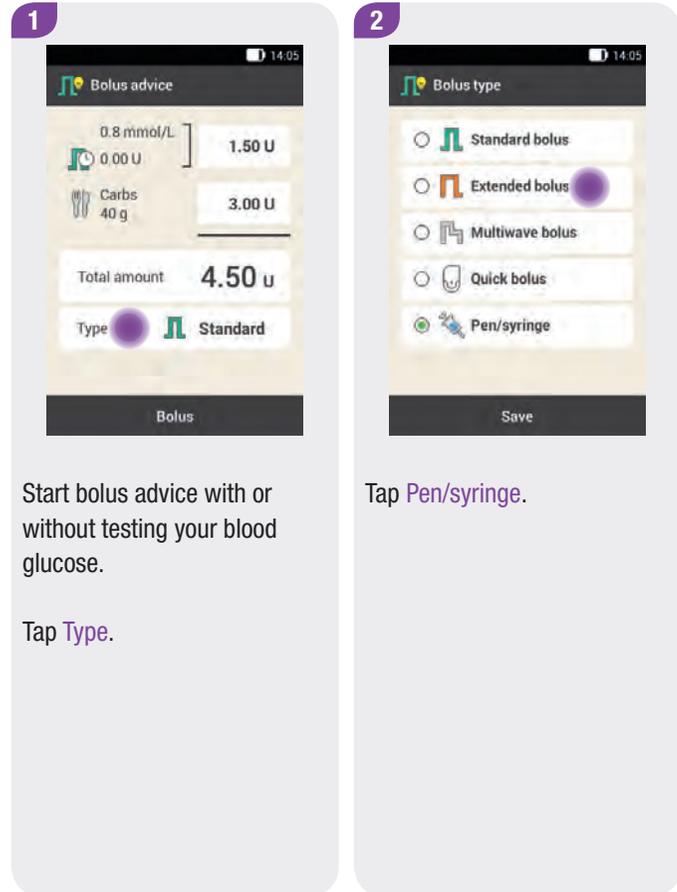
**Confirming the bolus**

To confirm this step and deliver the bolus, press the insulin button lit up in green  below the diabetes manager screen.

### 7.3.1 Bolus Advice for Pen/Syringe

The bolus advice feature is also available in injection mode. Make sure that the insulin amount saved by the micropump system is identical to the amount you delivered.

Also consult the instructions for use for your insulin pen or syringe.



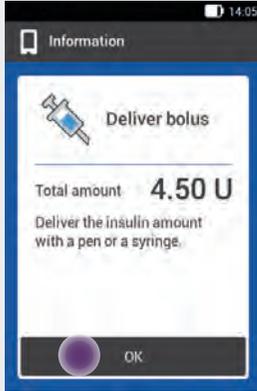
3



0.8 mmol/L  
0.00 U  
Carbs  
40 g  
Total amount  
4.50 u  
Type Pen  
Bolus

Once you have completed your entries, tap **Bolus**.

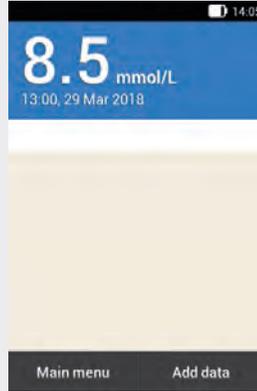
4



Information  
Deliver bolus  
Total amount 4.50 U  
Deliver the insulin amount with a pen or a syringe.  
OK

Tap **OK**.

5



8.5 mmol/L  
13.00, 29 Mar 2018  
Main menu Add data

The Status screen is displayed.

6



Deliver the insulin units you confirmed with a pen or syringe.

## 7.4 Turning Off Bolus Advice

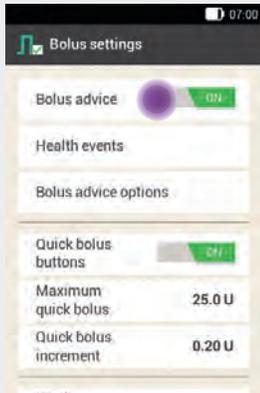
### Main menu > Settings > Bolus settings

This section describes how to turn off bolus advice.

#### Note

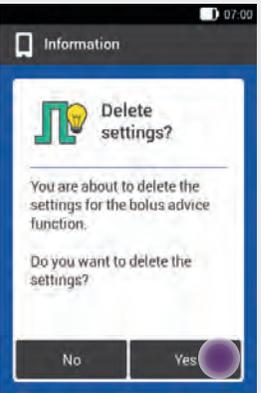
If you turn off bolus advice, all bolus advice options will be restored to the factory settings. If you want to use bolus advice again, you must set it up once again.

**1**



Tap **Bolus advice**.

**2**



Tap **Yes** if you want to turn off bolus advice now.

The bolus advice options will be deleted!

# 8 Basal Rate Profiles and Temporary Basal Rates

## 8.1 Basal Rate Profiles

In this chapter you will learn how you can adapt your basal insulin supply to your life situations using different basal rate profiles and Temporary Basal Rates (TBR).

The basal rate is a continuous delivery of insulin that covers the meal-independent insulin requirement. The size of the basal rate depends on your personal circumstances and the time of day.

A basal rate profile consists of a combination of basal rates that are defined according to your personal requirements and cover 24 hours a day. If your insulin needs differ on certain weekdays, on weekends, during illness or on holiday, you can create and use different basal rate profiles. You can set up a maximum of 5 basal rate profiles in the diabetes manager.

Basal rate profiles are defined through basal rate segments. Each basal rate segment needs a start time and an end time as well as an insulin amount, which is specified in insulin units per hour (U/h).

If you activate a Temporary Basal Rate of less than 100 % in addition to a low basal rate, this may be less than the minimum possible output amount of the micropump.

### Note

If you activate a different basal rate profile, all ongoing insulin deliveries (basal rate, boluses) will be cancelled.

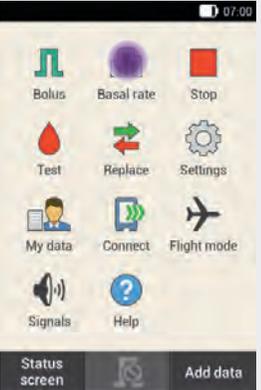
## 8.2 Creating and Editing a Basal Rate Profile

A basal rate profile can be programmed, edited and deleted in different ways. Start by using one of the following two options:

**1**



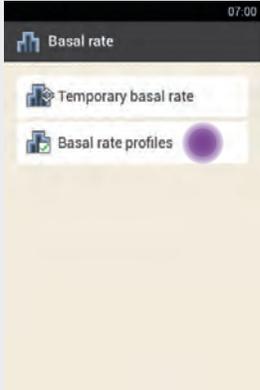
**or**



On the **Status screen**, tap the area indicating the basal rate.

In the **Main menu**, tap the **Basal rate** menu.

**2**



In the **Basal rate** menu, tap **Basal rate profiles**.

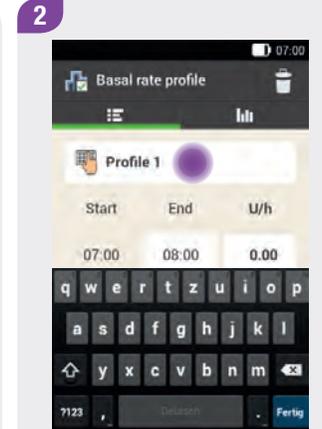
## 8.2.1 Programming a Basal Rate Profile

### Note

- ▶ Basal rate time blocks are not identical to or shared with the time blocks for bolus advice.
- ▶ You are only able to edit the end times of basal rate time blocks. The start time of each time block is identical to the end time of the previous time block.
- ▶ To add a new time block, set the end time of the last time block to the desired start time of the new time block.
- ▶ To delete a time block, set the end time of the time block to equal the start time of the same time block.
- ▶ When the maximum possible number of 5 basal rate profiles is reached, the **Basal rate profiles** display does not show the + symbol.



Tap + to add a basal rate profile.

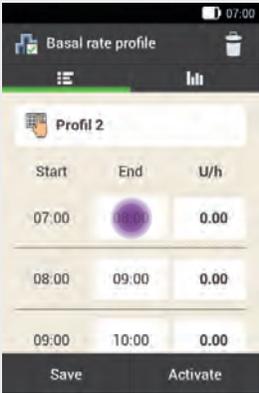


Tap the item with the  symbol.

Enter the desired name (for example, Weekend) for the **Basal rate profile**. The name may have up to 12 characters.

Confirm your entry with .

**3**



Start	End	U/h
07:00	08:00	0.00
08:00	09:00	0.00
09:00	10:00	0.00

Save      Activate

Tap the first time block. Set the end time and the insulin amount.

**4**



08:30

Save

Use **-** and **+** to set the end time for the time block (for example, start at 07:00, end at 08:30).

Tap **Save**.

**5**



1.50

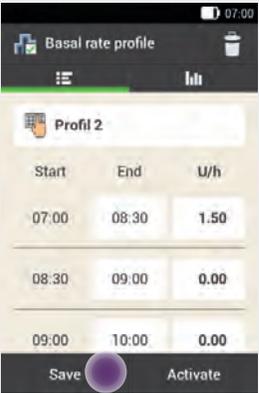
U

Save

Use **-** and **+** to set the insulin amount for the time block (for example, 1.50 U/h).

Tap **Save**.

**6**



Start	End	U/h
07:00	08:30	1.50
08:30	09:00	0.00
09:00	10:00	0.00

Save      Activate

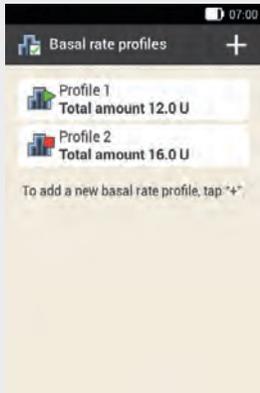
Repeat this process for all 24 time blocks.

Tap **Save**.

If you want to use the basal rate profile immediately, tap **Activate**.

### 8.2.2 Activating a Basal Rate Profile

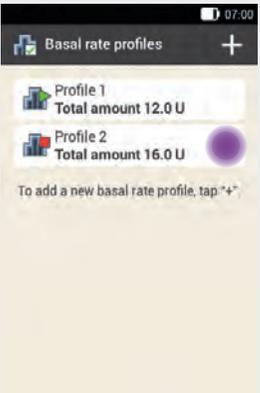
**7**



The newly programmed basal rate profile is displayed in the overview of the existing basal rate profiles.

Check whether the total amount displayed corresponds to the total amount defined by your healthcare professional.

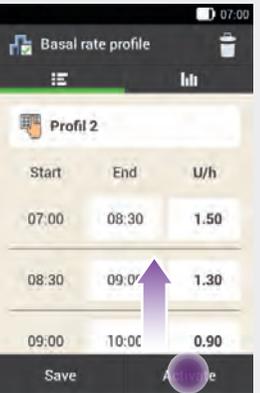
**1**



Tap the basal rate profile you want to activate (for example, Profile 2).

The currently active basal rate profile is indicated by the  symbol.

**2**



Start	End	U/h
07:00	08:30	1.50
08:30	09:00	1.30
09:00	10:00	0.90

If required, scroll the screen upwards to be able to check all time blocks of the basal rate profile.

Once all settings are correct, tap **Activate**.

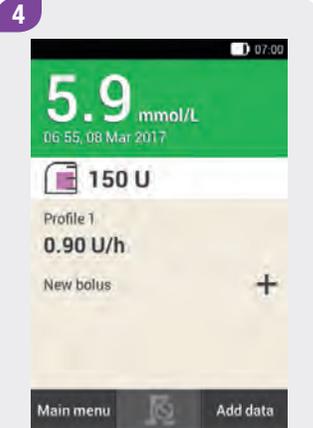
**3**



To confirm this step and activate the basal rate profile, press the insulin button lit up in green  below the diabetes manager screen.

### Note

Tapping  cancels the activation of the selected basal rate profile and takes you to the previous display. The basal rate profile that was previously active, remains active.



The activated basal rate profile is displayed on the Status screen.