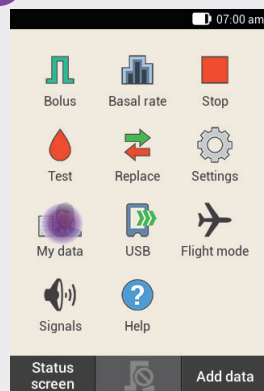


Symbol	Symbol name	Description
	Blood glucose result range	The symbol colors have the following meaning: Blue : above the target range Green : within the target range Yellow : below the target range Red : below the hypo warning limit
	Standard bolus	Bolus insulin from a standard bolus
	Extended bolus	Bolus insulin from an extended bolus
	Multiwave bolus	Bolus insulin from a multiwave bolus
	Basal insulin	Basal insulin from an injection
	Manual bolus with pen/syringe	Bolus was delivered using an insulin pen or syringe
	Bolus advice accepted	Bolus advice from the diabetes manager was accepted
	Bolus advice not accepted	Bolus advice from the diabetes manager was changed prior to delivery
	Carbohydrates	Carbohydrate data exists for the logbook entry
	Time of test	Data regarding the time of test exists for the logbook entry
	Health event	Health event data exists for the logbook entry
	Pump stopped	The micropump was stopped
	Notes	You entered a note

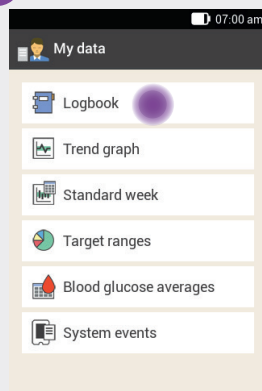
10.2.2 Viewing and Adjusting Logbook Data

1



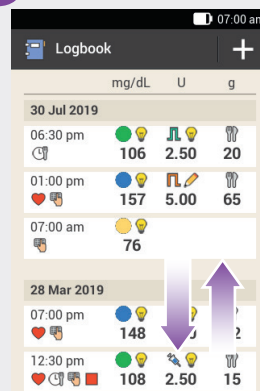
Tap **My data**.

2



Tap **Logbook**.

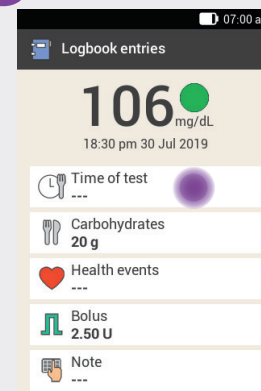
3



Scroll the display upwards or downwards to view additional logbook entries.

Tap a logbook entry if you want to view or adjust the details.

4



Tap the entry you want to view or adjust.

Time of test

5

Time of test

07:00 am

☐ All

☒ Before meal

☐ After meal

☐ Bedtime

☐ Fasting

☐ Other

Save

On the **Logbook entries** display, tap **Time of test**. Tap a time of test (for example, **Before meal**).

Tap **Save**.

Carbohydrates

6

Carbohydrates

07:00 am

20 g

1 2 3

4 5 6

7 8 9

. 0

Save

On the **Logbook entries** display, tap **Carbohydrates**. Enter the amount of carbohydrates you consumed.

Tap **Save**.

Health events

7

Health events

07:00 am

☒ Exercise 1 -15%

☐ Exercise 2 0%

☐ Stress 0%

☐ Illness 0%

☐ Premenstrual 0%

☐ Name 1 0%

Save

On the **Logbook entries** display, tap **Health events**.

Tap the appropriate entries. You can select up to 4 health events.

Tap **Save**.

Bolus

8

Bolus input

07:00 am

0 mg/dL

0.00 U

Carbs 0 g

Total amount 5.00 u

Type **Standard**

Including health events: 0%

Bolus

On the **Logbook entries** display, tap **Bolus**.

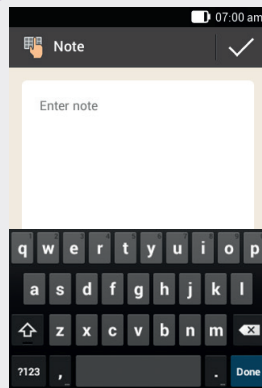
The display informs you about the bolus delivered.

Tap **Bolus**.

Note

The bolus advice feature initially treats quick boluses as correction insulin. Mark the quick boluses in the logbook as a meal bolus or correction bolus according to their purpose. Enter consumed carbohydrates in the logbook.

9



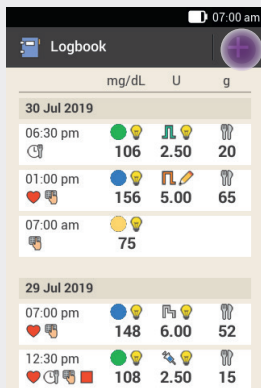
On the [Logbook entries](#) display, tap [Note](#).

Type a note to save with this entry.

Tap [Done](#).

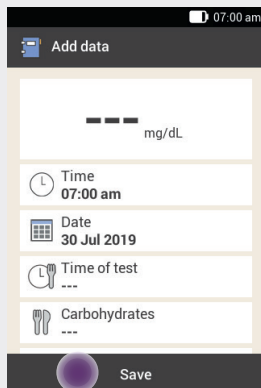
10.2.3 Adding New Data

1



On the **Logbook** display, tap **+** to add new data to the logbook.

2



Tap the entries you want to add.

Then tap **Save**.

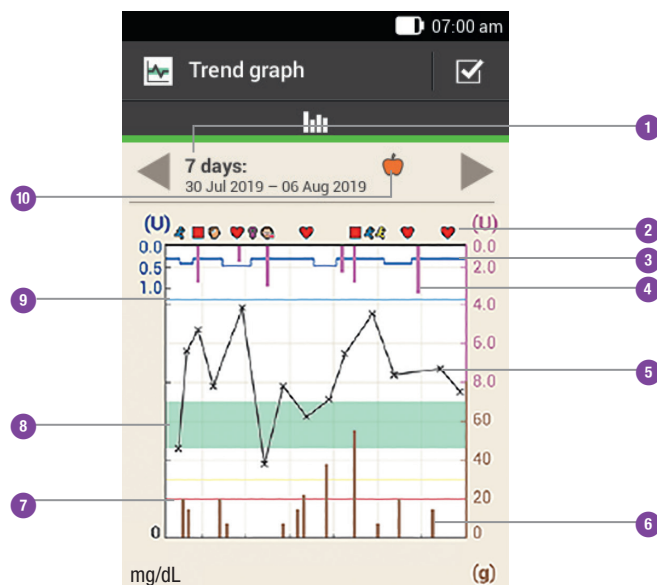
Note

You can also access the **Add data** display by tapping the **Add data** function button on the Status screen or in the Main menu.

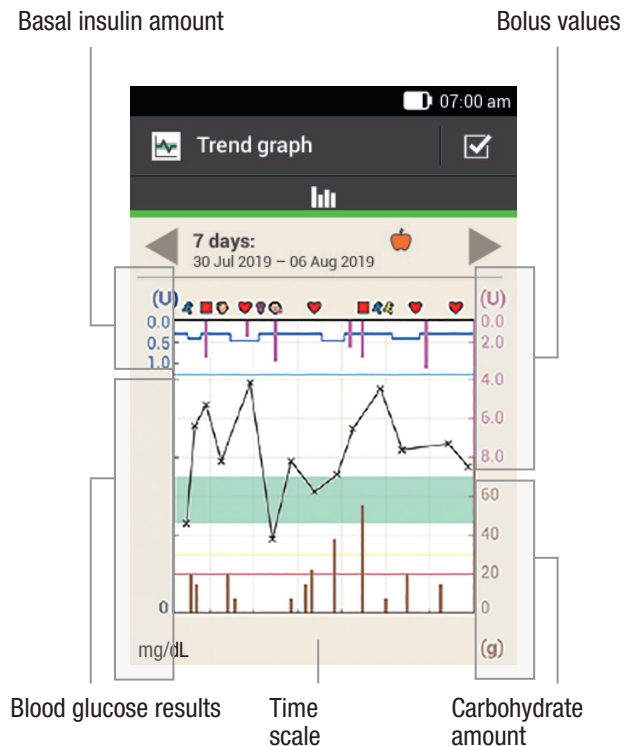
10.3 Trend Graph

Main menu > My data > Trend graph

The trend graph displays your blood glucose trends, basal rates, boluses, carbohydrates and other information. The logbook entries for the time period selected by you are used. Using the ◀▶ buttons, you can move backwards or forwards in time according to the selected time scale.



1	Time scale	Illustrated time period
2	Events	Displays health events or indicates that the micropump was stopped.
3	Basal rate	Blue line: The distance from the top edge of the graph shows the basal rate.
4	Bolus	Pink bars: Show the amounts of bolus insulin
5	Blood glucose result	Crosses (x): Individual blood glucose results that are connected by lines
6	Carbohydrates	Brown bars: Show the carbohydrate amount consumed
7	Hypo warning limit	Red line: Hypo warning limit
8	Blood glucose target range	Green area: Range between the lower and upper blood glucose threshold
9	Hyper warning limit	Light blue line: Hyper warning limit
10	Selected time of test	Displays logbook entries entered for this time of test.



On the **upper left side (U/h)** of the graph, the amount of basal insulin is displayed. The scale comprises a range of 1, 2, 5, 10, 20 or 40 U/h. By means of the scale, you can read the basal rate, which is represented by the blue basal insulin line. Scaling depends on the largest basal rate delivered during the selected time period.

Example

For example, if the highest basal rate in the selected time period is 3 U/h, the scale will show the range from 0 to 5 U/h.

On the **lower left side (mg/dL)** of the graph, the blood glucose result is displayed. By means of the scale, you can read the blood glucose results, which are represented by a black line. The black line connects the individual test results indicated by a cross. Scaling depends on the largest blood glucose value measured during the selected time period.

On the **upper right side (U)** of the graph, the bolus amount is displayed. By means of the scale, you can read the bolus values of the pink bars. The scale comprises a range of 1, 5, 15, 30 or 60 U. Scaling depends on the largest bolus delivered during the selected time period.

Example

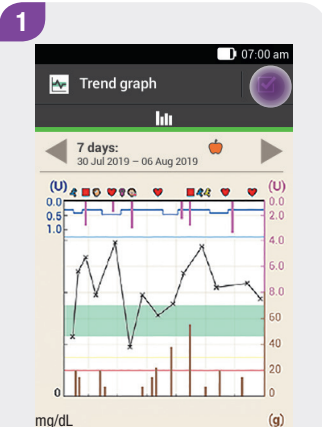
For example, if the largest bolus delivered during the selected time period is 8 U, the scale will show the range from 0 to 15 U.

On the **lower right side (g)** of the graph, the carbohydrate amount is displayed. By means of the scale, you can read the carbohydrate values, which are represented by the brown bars. The scale comprises a range of 40, 80, 120, 160, 200 or 240 g, or the equivalent scale for BE, KE or CC. Scaling depends on the largest carbohydrate amount consumed during the selected time period.

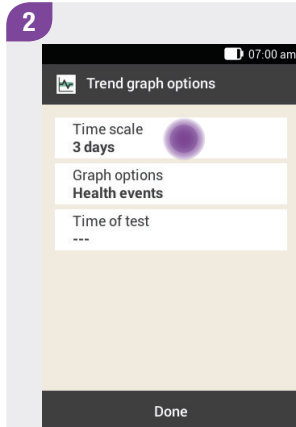
Example

For example, if the largest carbohydrate amount in the selected time period is 86 g, the scale will show the range from 0 to 120 g.

10.3.1 Displaying the Trend Graph

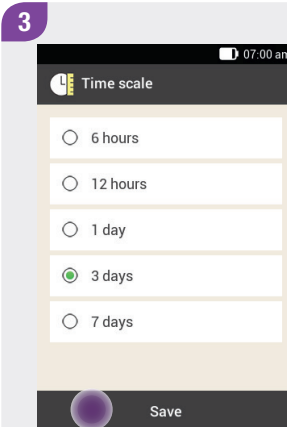


Tap ☒ to change the trend graph representation.



Tap the setting you want to change.

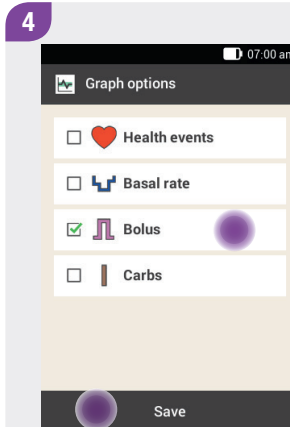
Time scale



Tap the desired time period.

Tap **Save**.

Graph options

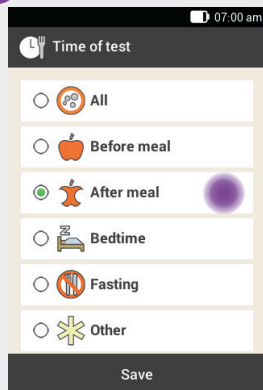


Tap one or more of the available graph options (for example, **Bolus**) to be displayed in the graph.

Tap **Save**.

Time of test

5



Tap the appropriate time of test (for example, **After meal**).

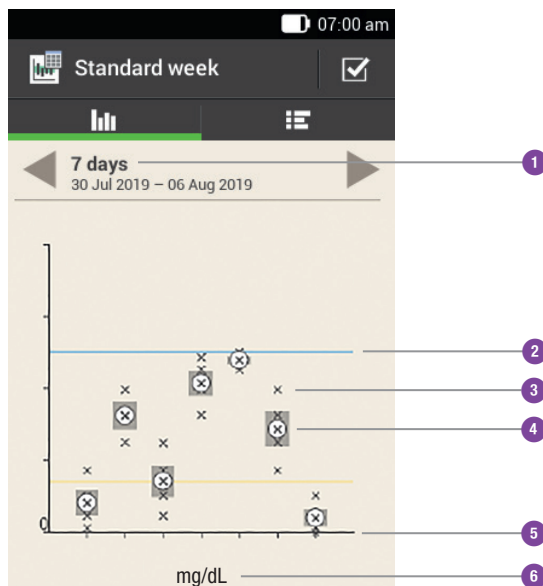
Tap **Save**.

On the **Time of test** display you can select which logbook entries are to be represented. Only the logbook entries are displayed for which you entered the selected time of test.

10.4 Standard Week

Main menu > My data > Standard week

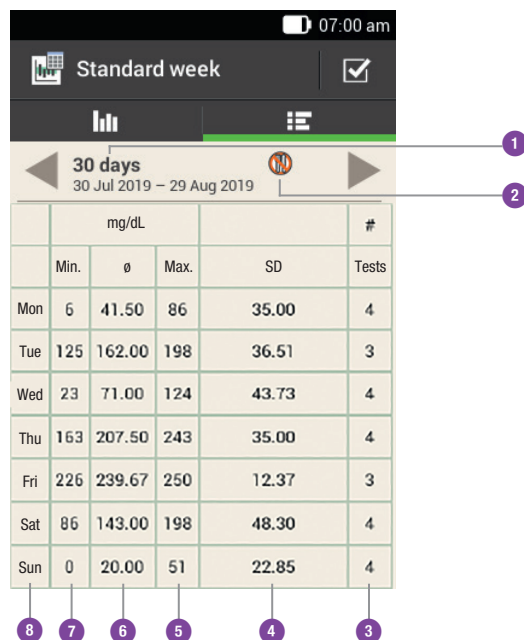
The standard week graph displays your blood glucose averages, the individual tests and the standard deviations for the days of a standard week. Using the ◀▶ buttons, you can move backwards or forwards in time according to the selected time scale.



1	Time scale	Represented time period, for example, 7 days
2	Hyper warning limit	Blue line: Hyper warning limit
3	x	Single blood glucose result
4	⊗	Average value
5	Time axis	Monday to Sunday
6	Blood glucose unit of measurement	mg/dL

The standard deviation indicates how the blood glucose results are scattered around the blood glucose average. A high standard deviation means that the blood glucose results are scattered away from the blood glucose average.

Tap  to switch to the standard week table. The standard week table displays the data of the standard week graph in table format. To return to the standard week graph, tap . Using the   buttons, you can move backwards or forwards in time according to the selected time scale.



	mg/dL			SD	#
	Min.	Ø	Max.	SD	Tests
Mon	6	41.50	86	35.00	4
Tue	125	162.00	198	36.51	3
Wed	23	71.00	124	43.73	4
Thu	163	207.50	243	35.00	4
Fri	226	239.67	250	12.37	3
Sat	86	143.00	198	48.30	4
Sun	0	20.00	51	22.85	4

1 Time scale

2 Selected time of test

3 Number of tests on the day of the standard week

4 Standard deviation (SD) of the day of the standard week

5 Highest blood glucose result of the day of the standard week

6 Blood glucose average of the day of the standard week

7 Lowest blood glucose result of the day of the standard week

8 Day of the week

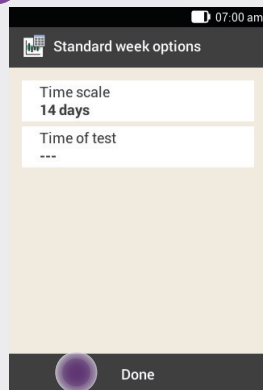
10.4.1 Displaying the Standard Week Graph

1



Tap ☒ to change the representation of the standard week graph.

2

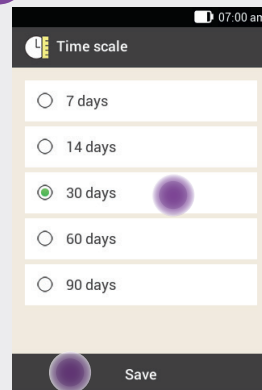


Tap one of the entries available for selection. Make the desired settings.

Tap **Done**.

Time scale

3

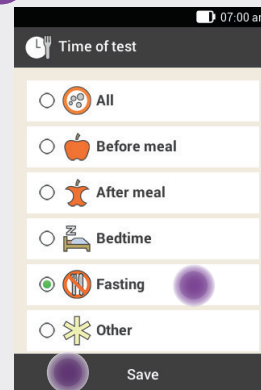


Tap the desired time period.

Tap **Save**.

Time of test

4



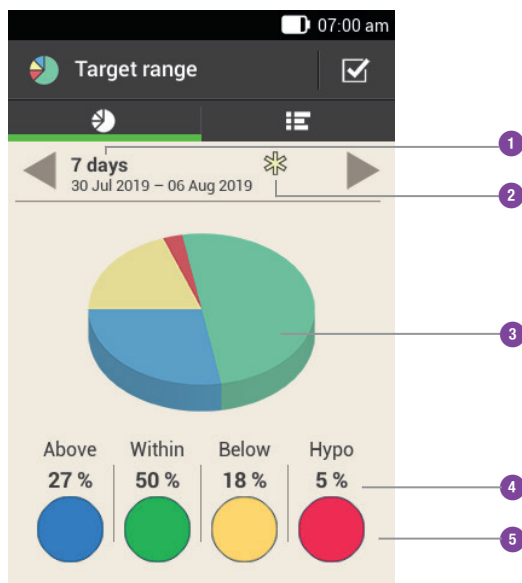
Tap the appropriate time of test.

Tap **Save**.

10.5 Target Range

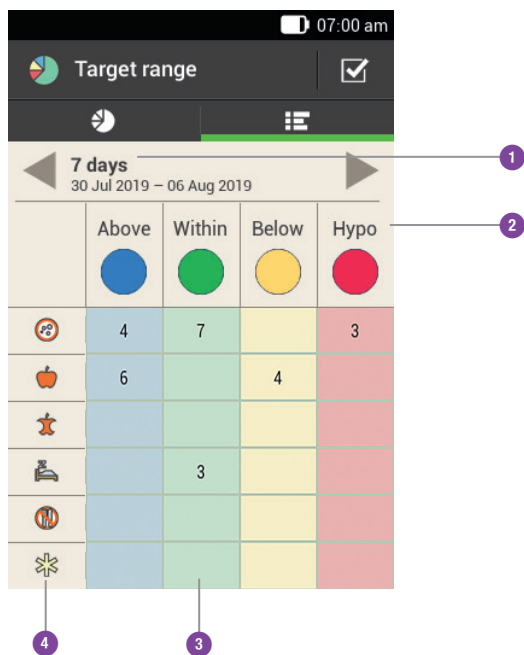
Main menu > My data > Target range

This screen displays a pie chart and a table illustrating your blood glucose results for the time period and time of test you selected. The chart is divided into the following blood glucose result ranges: *Above*, *Within*, *Below* and *Hypo*. Using the ◀▶ buttons, you can move backwards or forwards in time within the selected time period.



1	Time scale	Illustrated time period
2	Selected time of test	Displays logbook entries entered for this time of test.
3	Target range chart	Shows the target ranges of blood glucose results as a pie chart.
4	Percentage distribution	Shows the percentage of blood glucose results in each blood glucose result range.
5	Blood glucose result ranges	Colored representation of the blood glucose result ranges

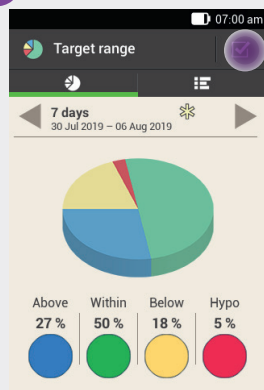
Tap  to switch to the target range table. The target range table displays the target range data in table format. To return to the target range chart, tap . Using the   buttons, you can move backwards or forwards in time according to the selected time period.



1	Time scale	Illustrated time period
2	Blood glucose result ranges	Colored representation of the blood glucose result ranges
3	Number	Number of test results in one of the ranges
4	Times of test	Shows the logbook entries for this time of test.

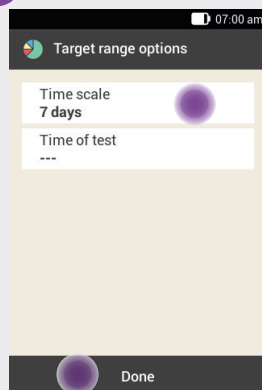
10.5.1 Displaying the Target Range Data

1



Tap ☒ to change the representation of the target range.

2

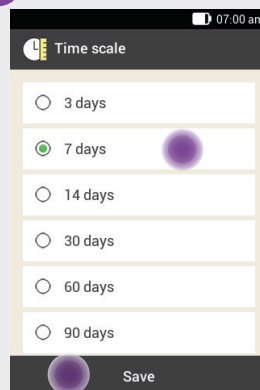


Tap one of the entries available for selection.

Make the desired settings and then tap **Done**.

Time scale

3

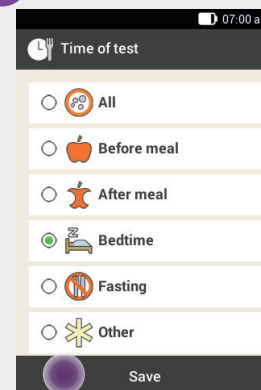


Tap the desired time period.

Tap **Save**.

Time of test

4



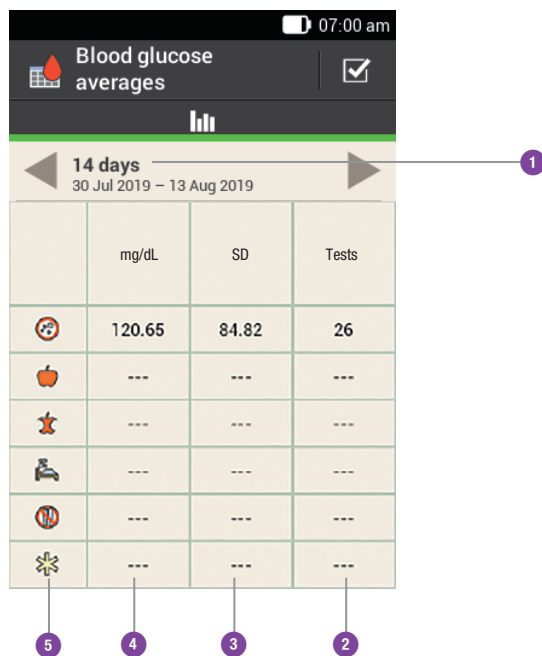
Tap the appropriate time of test (for example, **Bedtime**).

Tap **Save**.

10.6 BG Averages Table

Main menu > My data > Blood glucose averages

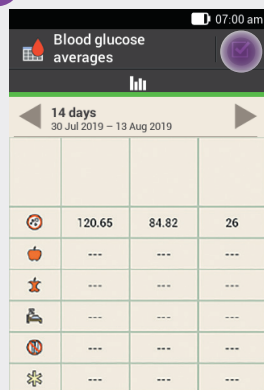
The BG averages table displays your blood glucose averages and standard deviations (SD) for the time period and time of test you selected.



1	Time scale	Illustrated time period
2	Number of tests	Shows the number of test results used for the calculation.
3	Blood glucose standard deviation	Indicates how the blood glucose results are scattered around the blood glucose average.
4	Blood glucose average	Average for the selected time period.
5	Times of test	Shows the logbook entries for this time of test.

10.6.1 Displaying the BG Averages Table

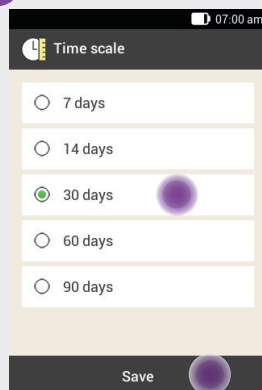
1



	120.65	84.82	26
	---	---	---
	---	---	---
	---	---	---
	---	---	---
	---	---	---

Tap  to change the settings for the time period.

2



Time scale

☐ 7 days

☐ 14 days

☒ 30 days

☐ 60 days

☐ 90 days

Save

Tap the desired time period.

Tap **Save**.

10.7 System Events

Main menu > My data > System events

The following system events can be accessed directly on the diabetes manager:

Event data	The last 90 maintenance, warning and error messages
Bolus data	The last 90 boluses
TBR data	The last 90 increases and decreases in the basal rate
Total daily dose	The last 90 daily insulin totals delivered
Information	Information about the micropump currently in use

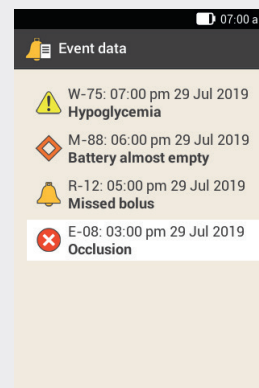
Note

If a record could not be read correctly because of an error, ---X--- is displayed instead.

10.7.1 Event Data

This display lets you access the last 90 maintenance, warning and error messages, with the most recent entry displayed first.

Example



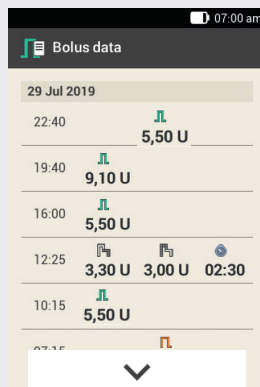
Each entry includes the following data:

- ▶ Type and number of the maintenance, warning or error message
- ▶ Title of the maintenance, warning or error message
- ▶ Time
- ▶ Date

10.7.2 Bolus Data

This display lets you access the last 90 bolus deliveries, with the most recent entry displayed first.

Example



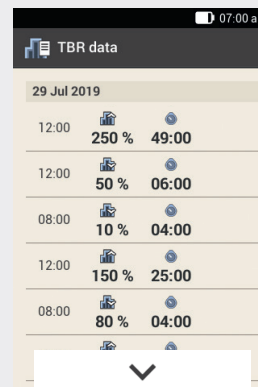
Each entry includes the following data:

- ▶ Start date
- ▶ Start time
- ▶ Immediate amount for the bolus (for quick, standard or multiwave bolus)
- ▶ Delayed bolus amount (for extended or multiwave bolus)
- ▶ Bolus duration (for extended or multiwave bolus)

10.7.3 TBR Data

This display lets you access the last 90 temporary basal rates, with the most recent entry displayed first.

Example



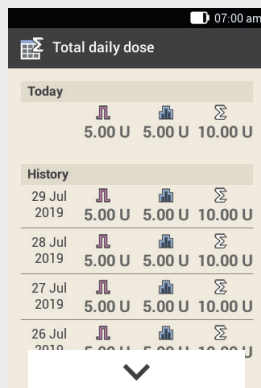
Each entry includes the following data:

- ▶ Start date
- ▶ Start time
- ▶ TBR as a percentage
- ▶ TBR duration

10.7.4 Total Daily Dose

This display lets you access the last 90 daily insulin totals delivered (in each case from midnight to midnight, including basal rate and boluses), with the most recent entry displayed first.

Example



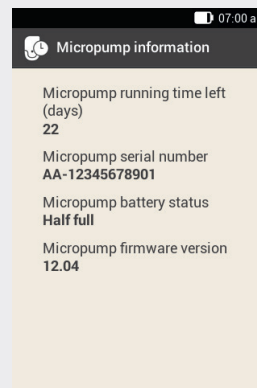
Each entry includes the following data:

- ▶ Daily insulin total delivered as a bolus
- ▶ Daily insulin total delivered as a basal rate
- ▶ Daily insulin total delivered
- ▶ Date

10.7.5 Information

This display lets you access information about the micropump currently in use

Example



This view includes the following data:

- ▶ Micropump remaining running time
- ▶ Micropump serial number
- ▶ Micropump battery status
- ▶ Micropump firmware version

10.8 Data Transfer

You can display and evaluate the data on a PC using an Accu-Chek diabetes management software, such as the Accu-Chek Smart Pix software.

For more information, see the User's Manual for the software used.

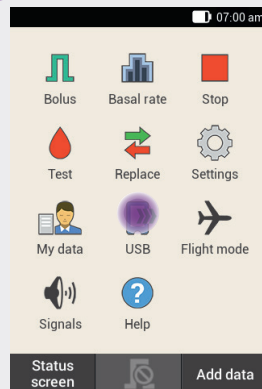
Install the software before you begin the data transfer.



WARNING

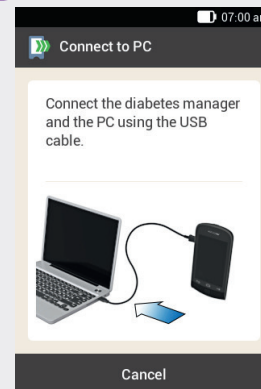
Only use the supplied USB cable.

1



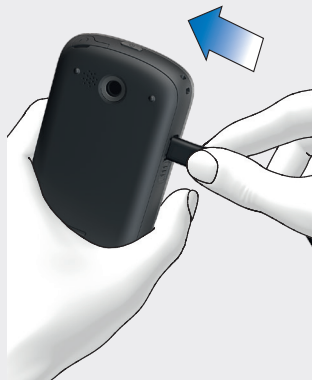
In the Main menu, tap **USB** .

2



The **Connect to PC** display appears.

3



Plug the smaller end (micro-B plug) of the USB cable into the USB port of the diabetes manager.

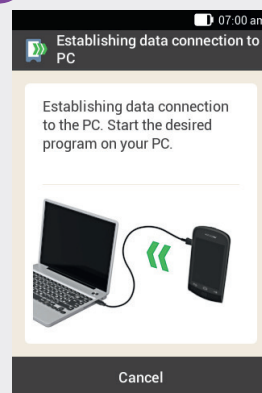
4



Plug the larger end (USB-A plug) of the USB cable into a free USB port on your computer.

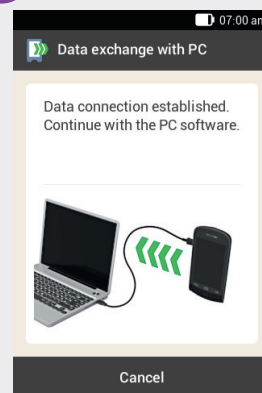
Do **not** use the USB charging port (often indicated by a lightning bolt symbol ⚡), as data is not transferred via this port.

5



Launch the Accu-Chek diabetes management software on your PC.

6



This display shows that data connection between the diabetes manager and the PC was successfully established. You can now use the Accu-Chek diabetes management software.

11

Changing Settings

Main menu > Settings

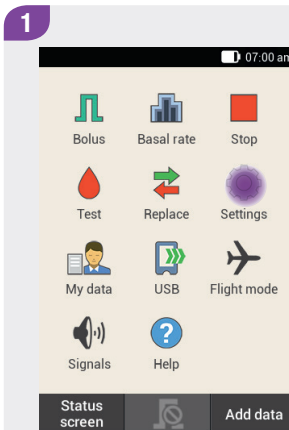
In the *Settings* menu, you can make changes to the default settings or change the settings you made. This allows you to adjust the micropump system to your individual treatment requirements and your personal preferences.

For information on changing time blocks and health events, and on settings for insulin sensitivity, carbohydrate ratio, meal rise, snack size, acting time and offset time, see chapter 7 *Bolus Advice*.

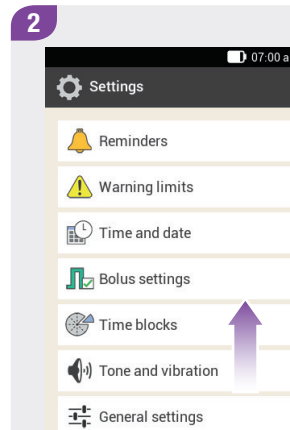
For information on reminder settings, see chapter 12 *Reminders*.

Note

When you edit a setting, any unsaved changes will be discarded when the diabetes manager turns off or a test strip is inserted into the test strip slot.



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



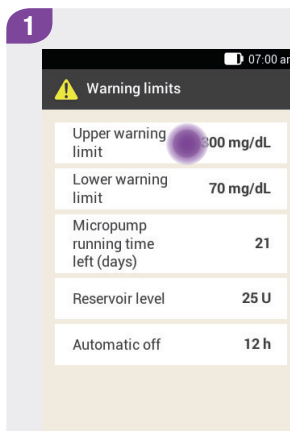
Scroll the list upwards to view additional list entries.

Tap the desired entry to change the respective settings.

11.1 Warning Limits

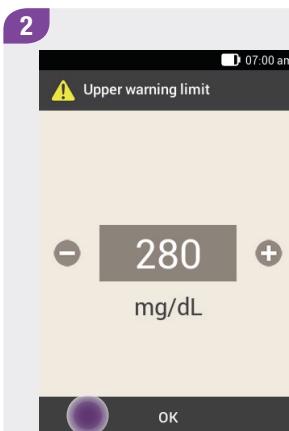
Main menu > Settings > Warning limits

You can set the hyper and hypo warning limits that best fit your needs. Whenever your blood glucose result is above the hyper warning limit or below the hypo warning limit, the diabetes manager displays a warning.



Tap **Upper warning limit** or **Lower warning limit**.

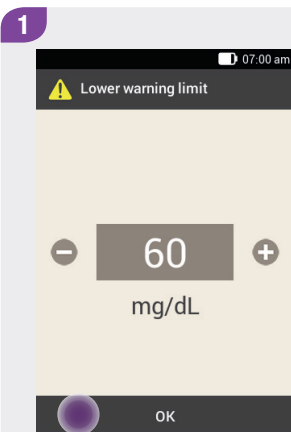
Upper limit value



Use **-** and **+** to set the upper warning limit.

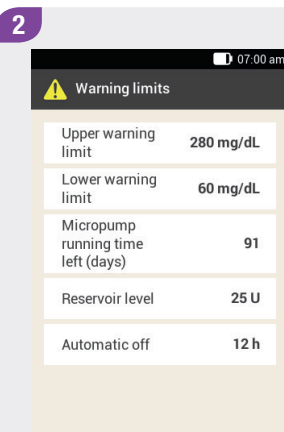
Tap **OK**.

Lower limit value



Use **−** and **+** to set the lower warning limit.

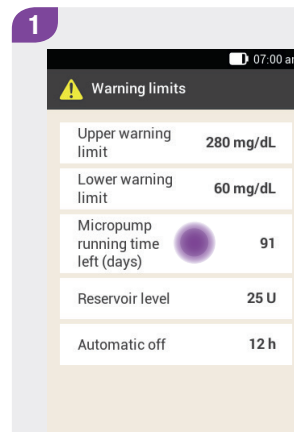
Tap **OK**.



Tap **←** to return to the list of settings. If you want to make additional settings, tap the respective entry.

Remaining running time

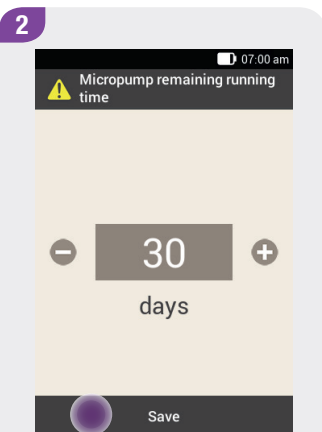
The warning limit for the remaining running time of the micropump indicates the number of days as of which you want to receive a warning regarding the remaining running time of the micropump.



Tap **Micropump running time left (days)**.

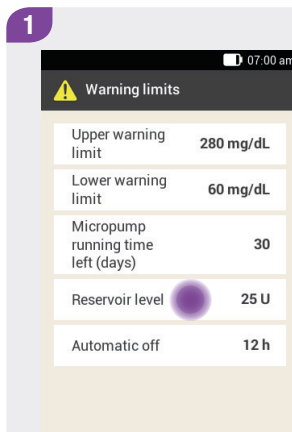
Reservoir level

The warning limit for the reservoir level indicates the number of insulin units as of which you want to receive a warning regarding the remaining insulin amount. The remaining insulin amount is the insulin amount that is still available in the micropump reservoir.

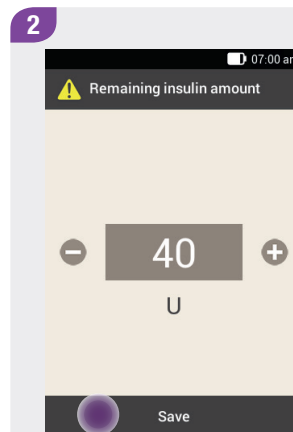


Use **−** and **+** to set the number of days as of which you want to receive a warning.

Tap **Save**.



Tap **Reservoir level**.



Use **−** and **+** to set the number of insulin units at which you want to receive a warning.

Tap **Save**.

Automatic off

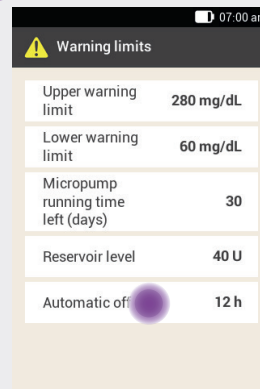
The automatic off function is a safety feature for emergency situations. If you have not touched any button on your micropump and not operated the diabetes manager for the specified number of hours, the micropump stops insulin delivery. This could happen, for example, if you are no longer able to stop the pump yourself due to severe hypoglycemia.

The automatic off function is turned off by default.

Note

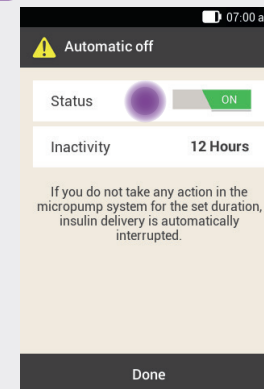
It is advisable to set a time span for the automatic off function that is longer than your usual bedtime.

1

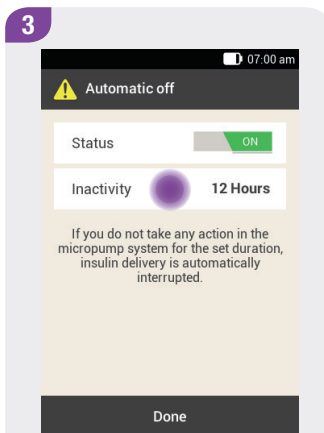


Tap **Automatic off**.

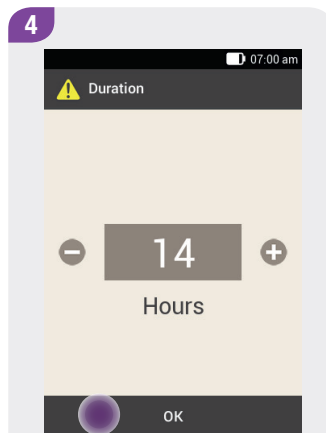
2



Tap **Status** to turn the automatic off function on or off.

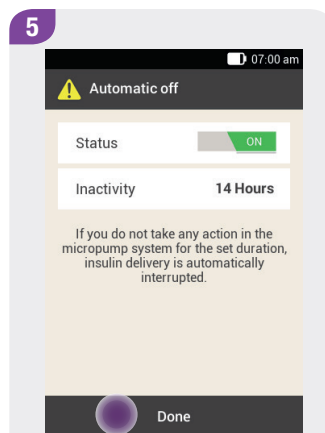


Tap **Inactivity**.



Use **−** and **+** to set the number of hours after which the insulin delivery will be interrupted.

Tap **OK**.



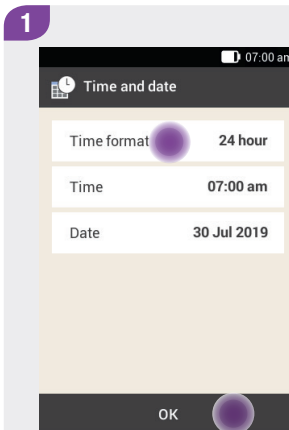
Tap **Done**.

11.2 Time and Date

Main menu > Settings > Time and date

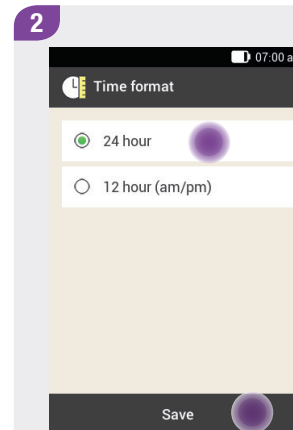
WARNING

- ▶ Having the time and date set precisely is essential for your micropump system to function properly. Having the wrong time set may result in the delivery of incorrect insulin amounts, thus leading to hyperglycemia or hypoglycemia.
- ▶ Switching the system time to the respective time zone you are in may result in the basal rate and bolus advice to be inappropriate. When travelling across multiple time zones, discuss the adjustments necessary for basal rate and bolus advice with your healthcare professional in advance.



Tap **Time format**, **Time** or **Date** to make the respective settings.

Then tap **OK**.



Tap the desired time format, for example, 24 hours.

Tap **Save**.