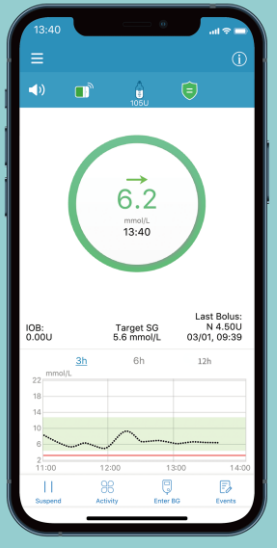
EasyPatch App

Insulin Pump System

Quick Start Guide (mmol/L)



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Simplifying Diabetes

Medtrum

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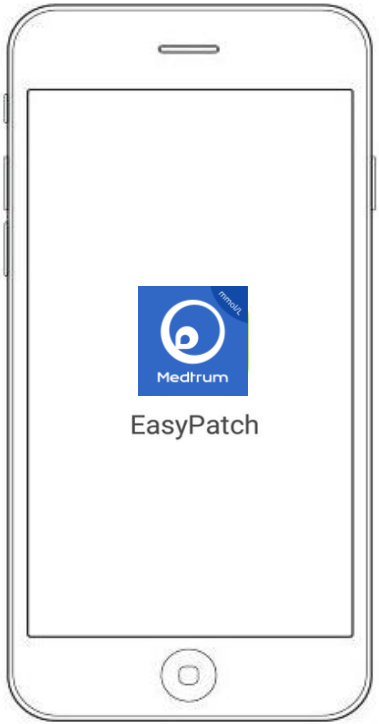

The EasyPatch Insulin pump System consists of:

- **Smart device with Medtrum EasyPatch mobile App installed**
- **Patch Pump**

The Medtrum EasyPatch mobile App monitors and controls your Patch, via Bluetooth. It provides you with Patch Pump data for the last 90 days.

Bluetooth communication is essential for the EasyPatch App to control/monitor your Patch Pump. The App can detect and will notify you about a disconnection.

If the communication is lost, the Patch Pump will continue delivering basal insulin based on your programmed settings, perform safety checks and automatically stop delivery in case of serious conditions.

The App can be used when your smart device is charged and turned-on. If the phone is turned off, as soon as you restart your smart device and the App, the App will automatically connect with the Patch Pump system.

Insulin Pump System

Reservoir Patch

Pump Base

- The ultra-thin Patch Pump is composed of a reusable Pump Base and a disposable Reservoir Patch which stores up to 200 U of insulin and lasts for up to 3 days.
- The Pump Base stores delivery settings and sends data to the EasyPatch App via Bluetooth Low Energy (communication range 4 meters without blocking).
- The Patch Pump (Pump Base and Reservoir Patch connected) is waterproof at 8 feet (2.5 meters) for 60 minutes (IP28).
- Store the Pump Base and Reservoir Patch at temperatures between -10°C (14°F) and 55°C(131°F).
- Operating temperature of Insulin Pump system is between 5°C (41°F) and 40°C (104°F).

Smart Device Requirements

- IOS device: IOS 11.0 system or above
- Android device: Android 8.0 system or above

Recommended Smart Device Settings

See your smart device instructions to learn how to change its settings.

Set the following for your EasyPatch App:

- Bluetooth: Available and turned on
- Silent and Do Not Disturb: Turned off
- Volume: Loud enough for you to hear alerts and reminders.
- Internet: Make sure your smart device settings allow EasyPatch App to use WLAN and mobile data.
- Camera: Allow EasyPatch access to camera.
- Notifications: Turn on notifications for the EasyPatch App.
- Time: Do not manually change your smart devices time as this will make the time on your monitor screen different.
- Battery saving mode: Do not activate low battery usage mode. Otherwise, the app will stop uploading data in the background.
- Keep EasyPatch App open and running in the background
- Restart the EasyPatch App after your smart device is restarted.

If you installed the App on an IOS device:

- Make sure the background refresh for EasyPatch App is turned on.

If you installed the App on an Android device:

- For Android system 8.0 to 11.0, make sure you allow the App to access device's location so that the App can use the Bluetooth feature
- For Android 12.0 system or later, make sure you turn on Nearby Devices so that the App can use the Bluetooth feature to connect other device.
- Make sure the EasyPatch App is locked in the background.
- Open auto run in the smart manage (Samsung).

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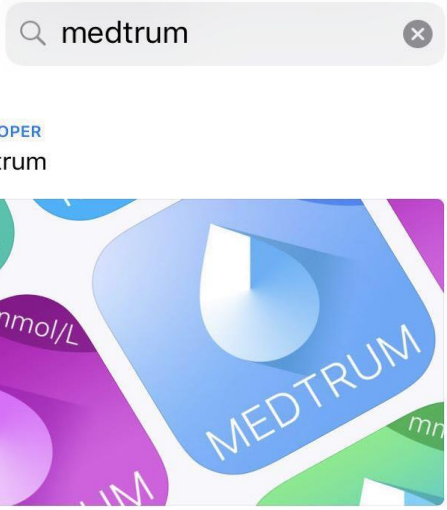
Install and Log in

1. Download and install EasyPatch App

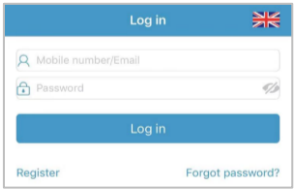
Search “Medtrum” in AppStore or Google Play



2. Open the Medtrum EasyPatch App

3. Log in a Medtrum account

If you already have a Medtrum account, tap the national flag on the top right corner and select the country you chose upon registration, and then login with your account and password.



1. Register with email

If you do not have a Medtrum account, tap **Register** at the bottom left corner to enter the Register screen.
Tap the **national flag** to select the country.

Enter your email address as your account name.
Tap the **Get Code** once and you will receive a 6- digit Verification Code.
Enter the 6-digit Verification Code.

2. Set password

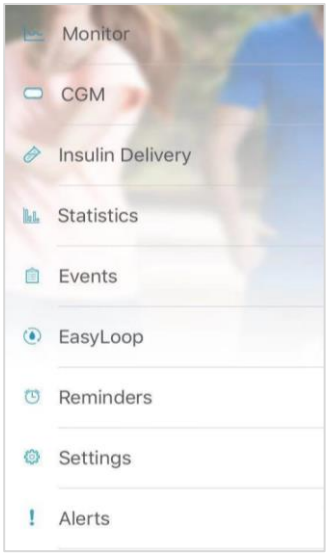
- ✓ The password must contain characters from three of the following four categories:
  - English uppercase characters (A through Z)
  - English lowercase characters (a through z)
  - Base 10 digits (0 through 9)
  - Non-alphabetic characters, including ~!@#$%^&*()_-+=`{}|[]\:";'<>,.
- ✓ The password must be between 6 and 20 characters long.
- ✓ The password must be different from your username (your email address).
- ✓ The password cannot contain 3 consecutive numbers (eg: 123, 321).
- ✓ The password cannot contain 3 consecutive letters (eg: abc, cba).
- ✓ The password cannot contain spaces.

3. Create account

After you have read and agreed to the privacy policy and terms of use, tick the small boxes and tap **Create Account** to register your Medtrum account.

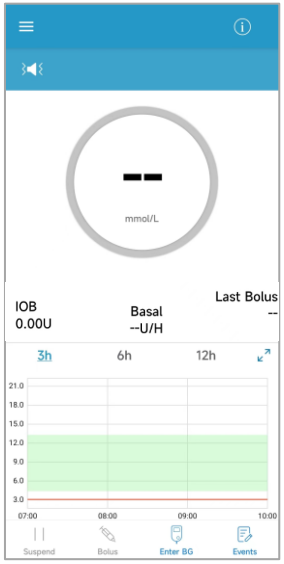
Monitor Screen and Main Menu

Main Menu

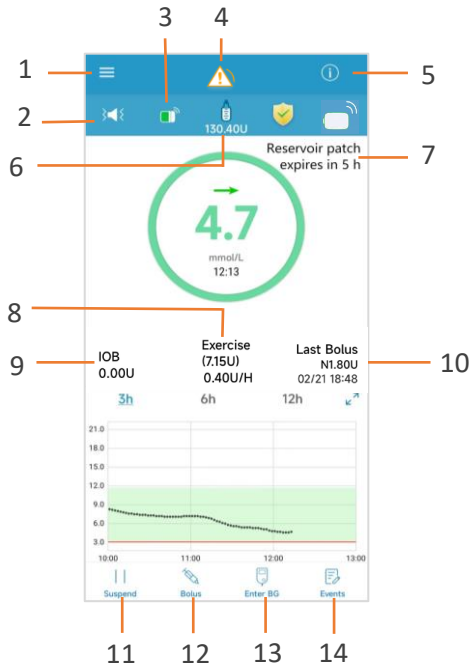


Monitor Screen

Not Connected



Connected



1. Main Menu
2. Audio Options
3. Pump RF signal
4. Alarm/Alert
5. Status
6. Insulin left
7. Patch Expiry Reminder
8. Delivery Status
9. IOB
10. Last Bolus
11. Suspend/Resume
12. Deliver Bolus
13. Enter BG
14. Add Event

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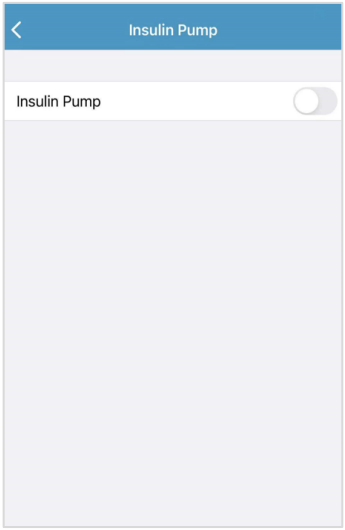
1. Switch on the Insulin Pump feature

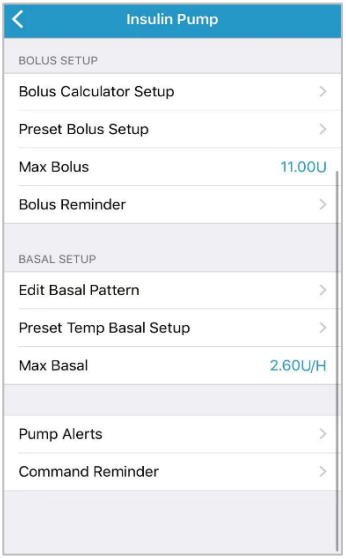
Main Menu ➔ Settings ➔ Insulin Pump

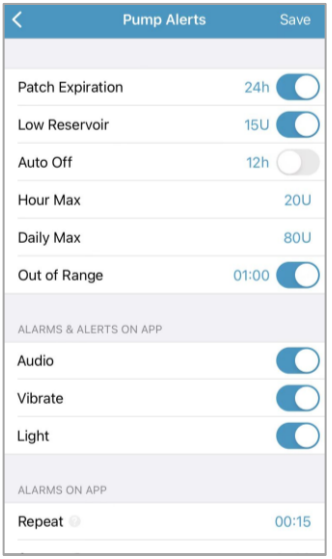


Please contact your local Medtrum Representatives to add your account to the Insulin Pump Allowed List first. If your email has not been added to the Allowed List, you will not be able to use the Insulin Pump related feature in the EasyPatch App.

2. Audio options of Patch Pump

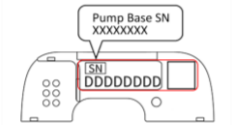
Main Menu ➔ Settings ➔ Insulin Pump➔ Pump Alerts ➔ Audio Options





3. Find Pump Base SN

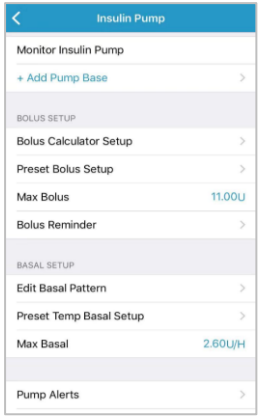
You can find the Pump Base SN on the product box or on the back of the Pump Base.



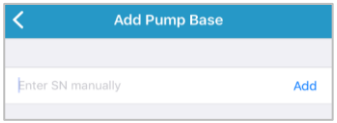
4. Add Pump Base SN

Main Menu ➔ Insulin Pump ➔ Add Pump Base

a. You can use the camera to scan the QR code on the back of your Pump Base or on the product box.



b. You can also tap **Enter SN manually** to enter the SN manually.

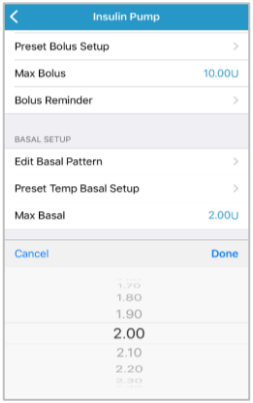


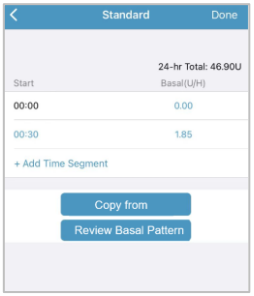
1. Max Basal

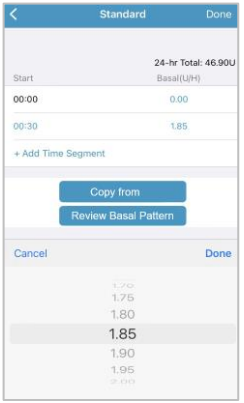
Main Menu ➔ Settings ➔ Insulin Pump ➔ Max Basal

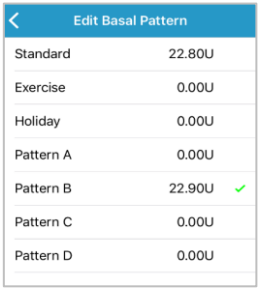
2. Edit Basal Pattern

1. Tap Edit Basal, then select the Pattern to edit
2. Set basal rate
   - Tap blue U/H field to set the Basal rate.
   - You can set a basal rate between 0 and the Max Basal Rate with an increment of 0.05 U/H.
3. Add Time Segment
   - Tap +Add Time Segment to add a new segment.
   - You can set up to 48 segments for each day.
4. Delete Time Segment
   - Slide to left on each segment, tap Delete. The start time of next segment will be adjusted
5. Scroll up and down to review all segments
6. Tap Done to save the settings









3. Select a Basal Pattern

Main Menu ➔ Basal ➔ Select Pattern

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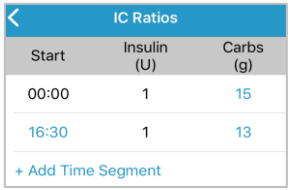
Insulin Pump Settings-Bolus

1. Max Bolus

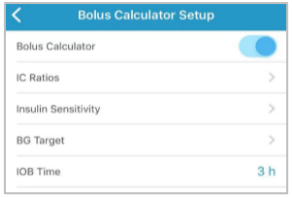
Main Menu ➔ Settings➔ Insulin Pump ➔ Bolus Setup

Max Bolus	22.35U

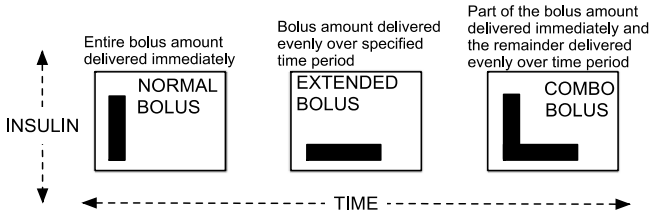


2. Set up the Bolus Calculator

- Turn on the Bolus Calculator
- Set IC ratios
- Set Insulin Sensitivity
- Set BG target
- Set IOB Time (Active Insulin Time)



3. Normal, Extended and Combo Bolus



4. Command Reminder

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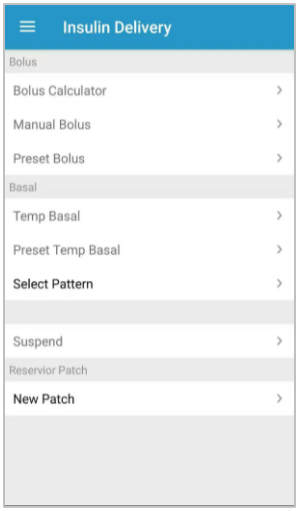
Start a new Patch

Main Menu ➔ Insulin Delivery ➔ New Patch

When there is no Patch activated or when an old Patch has been removed, you can go to **Insulin Delivery** menu to activate a new patch. Make sure that the Pump Base SN has been entered on your App correctly.



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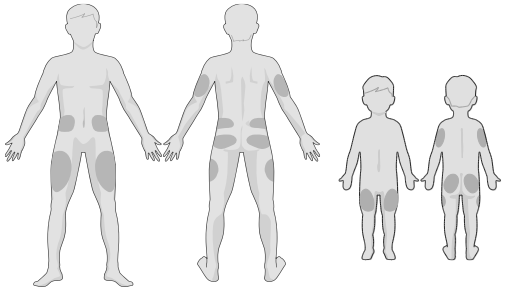
Start a new Patch

1 Select the infusion site

- Clean, hair free, dry, with enough fat (at least 5mm) and away from naval.
- A new infusion site should be at least 2.5 cm (1 inch) away from the last site.
- If you choose an infusion site on your abdomen, back or buttocks, apply the Patch horizontally.
- If you choose an infusion site on your upper arm or thigh, apply the Patch vertically.



Note: Please pay attention to the location of the Sensor site and Patch site so that there is little communication interruption.

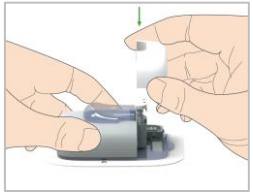
2 Prepare the infusion site

- Wash your hands with soap and water.
- Clean the infusion site with an alcohol wipe to enhance adhesion.
- Let the skin air dry completely.

3 Connect Pump Base and Reservoir Patch

Main Menu ➔ Insulin Delivery ➔ New Patch

Gently insert the Pump Base perpendicularly into the Reservoir Patch and push it all the way down until the Pump Base is locked in place. At this time, you will hear a click indicating the two are firmly attached.



The Pump beeps 4 times

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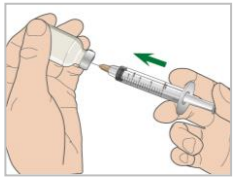
4 Fill the New Reservoir Patch

With the help of your healthcare provider, decide on the amount of insulin (70 U - 200 U) you need to insert into the Reservoir Patch.

Warning: Do not inject air into the fill port. Doing so may result in unintended or interrupted insulin delivery.

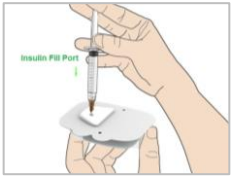
1. Push air into the vial.



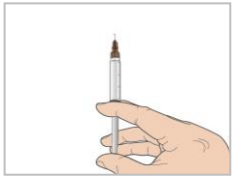
2. Fill the syringe with insulin.

Remove air

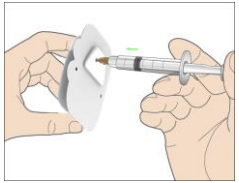
3. Keep the syringe vertical to the Patch Pump, and the needle inside the fill port. Gently pull back on the plunger by one or two black lines to introduce one small bubble into the syringe.



4. Remove the syringe from the Reservoir Patch. To get rid of the air, Push the plunger until you see a drop of insulin at the tip of the syringe.

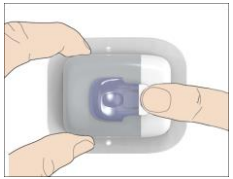


5. Slowly fill the Reservoir with insulin



5 Prime the Pump

Half-Press the needle button until it clicks.
Do not start priming before the needle button is half-pressed.



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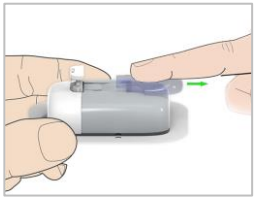
Start a new Patch

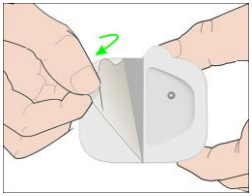
Priming takes about 3 minutes.

6 Place the Patch

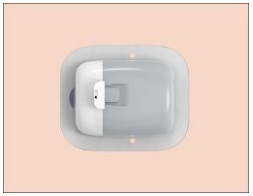
1.Remove the safety lock horizontally



2. Peel off the adhesive liners

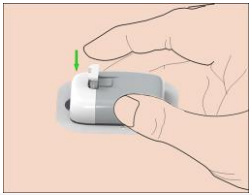


3. Attach the Pump on the skin



4. Run your finger around the entire edge of the adhesive pad and press the pump in place for 5 seconds

5.Press the needle button with one quick motion to insert the needle into the skin



7 Start Insulin Delivery

Tap **Continue** after you insert the needle

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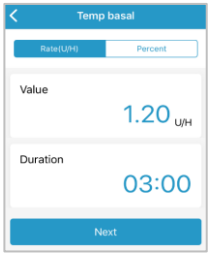
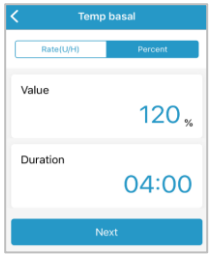
1. Activate a Temp Basal

Main Menu ➔ Insulin Delivery ➔ Temp Basal

With a Temp Basal you can adjust your Basal rate for a short time

Select a Basal type, rate or percent and duration. Tap pump 2 times, an on-screen message will tell you temp basal has been activated. Tap **Return** to go back to the **Monitor** Screen.

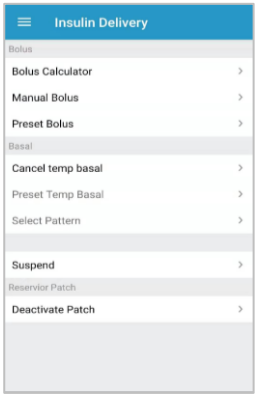




2. Cancel a Temp Basal

Main Menu ➔ Suspend

Main Menu ➔ Insulin Delivery ➔ Cancel Temp Basal



3. Set Preset Temp Basal

Main Menu ➔ Settings➔ Insulin Pump ➔ Preset Temp Setup

4. Activate a Preset Temp Basal

Main Menu ➔ Insulin Delivery ➔ Preset Temp Basal

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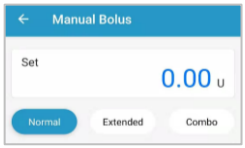
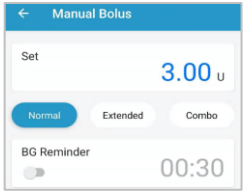
Manual Bolus

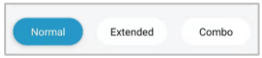
1 Main Menu ➔ Insulin Delivery ➔ Manual bolus



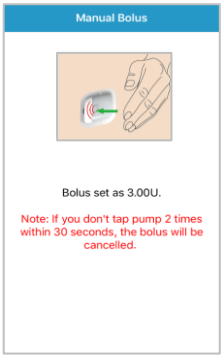
2 Set Bolus dose



3 Set Bolus type

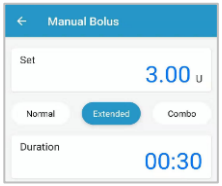


Normal Bolus



Extended Bolus

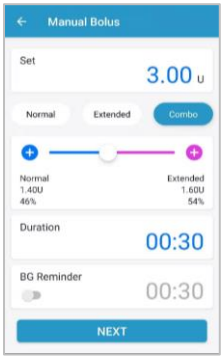
Set duration



Combo Bolus

Tap blue/purple plus sign to set proportion of Normal part and Extended part

Set duration



4 Cancel an active Bolus

Main Menu ➔ Insulin Delivery ➔ Cancel Bolus

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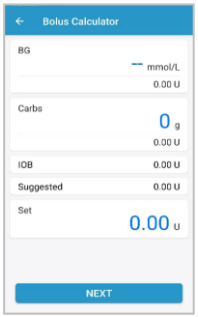
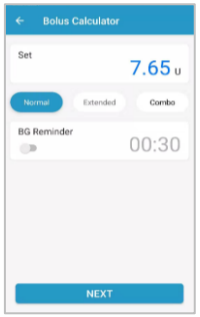
1 Main Menu ➔ Insulin Delivery ➔ Bolus Calculator

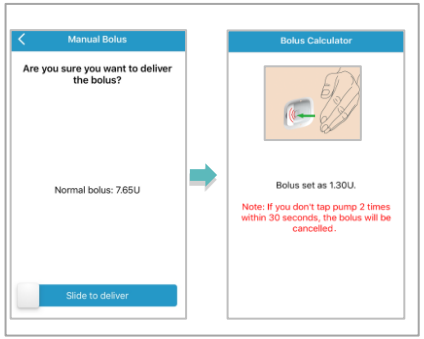


2 Enter BG or Carb, or both

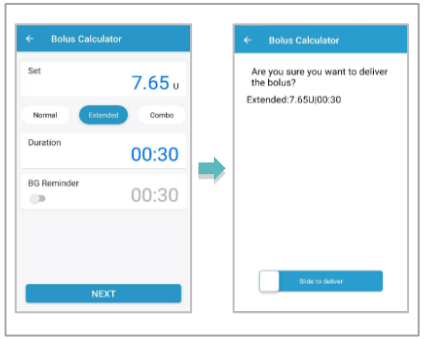
3 Set Bolus dose and Bolus type



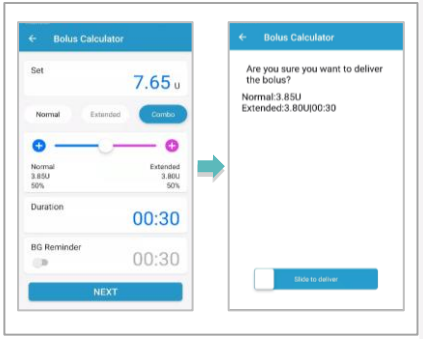
Normal Bolus



Extended Bolus



Combo Bolus



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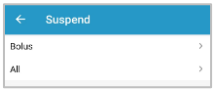
Suspend & Resume

Suspend

Main Menu ➔ Insulin Delivery ➔ Suspend

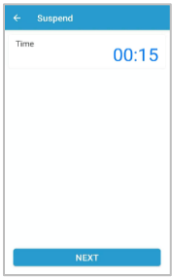
A Bolus is being delivered

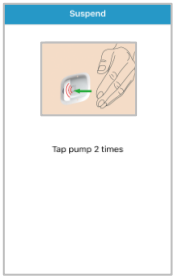


Bolus

All

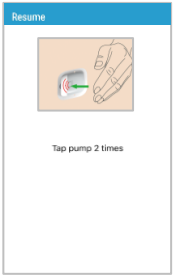
No Bolus is being delivered





Resume

Main Menu ➔ Insulin Delivery ➔ Resume



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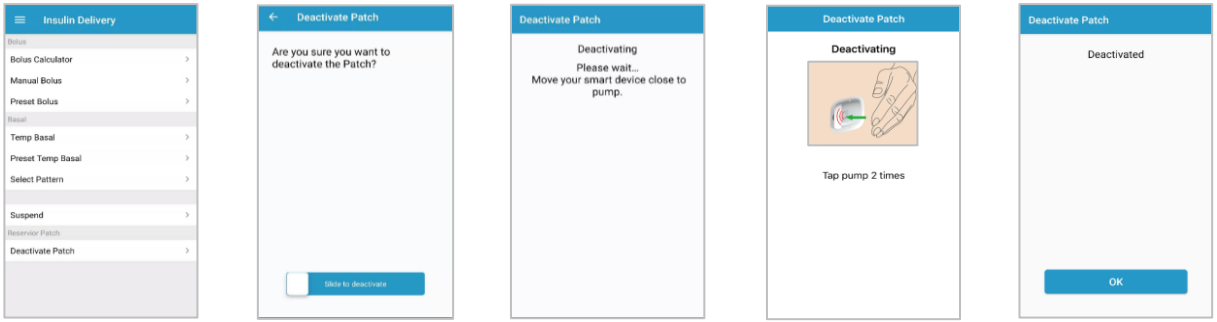
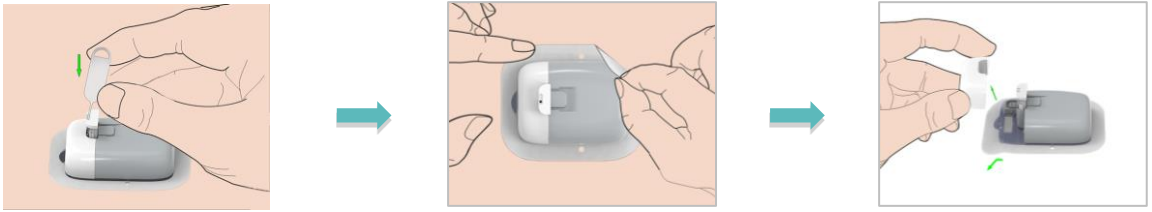
Menu➔ Insulin Delivery ➔ Deactivate Patch



Remove the Patch

- After the Reservoir Patch is deactivated, retract the needle with the needle-eject tool.
- Gently remove the entire Patch Pump. Use a medical adhesive remover or baby oil if necessary.
- Fold and break the tab of Reservoir Patch. Push up the pump base from the bottom and remove it from the old Reservoir Patch.
- Discard the old Reservoir Patch according to your local waste disposal regulations. Do NOT discard your Pump Base. It is reusable.



Warning: Once the Patch is removed from the skin, do not attempt to press the needle button again. Doing so will result in injury. Please wait for at least 5 seconds before connecting to a new reservoir patch, otherwise you may not hear the four beeps, or receive an ‘Used Patch’ alarm when it’s actually a new patch.

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Read Pump

Monitor Screen

Delivering Basal

Delivering Extended Bolus

Delivery Suspended

Delivering Normal Bolus

Delivery Status

Icon	Shape and Color	Description
	Grey ring	Grey ring indicates that there is no activated Pump.
	Green ring	Green ring represents the basal delivery.
	Green and dark green ring	Green ring with dark green part represents Temp Basal, the dark green part indicates the progress of Temp Basal delivery.
	Blue and dark blue ring	Blue ring represents the Normal Bolus, the dark blue part indicates the progress of delivery.
	Purple and dark purple ring	Purple ring represents the extend Bolus, the deep purple part indicates the progress of delivery.
	Red ring	Red ring represents the delivery suspend status.

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Alert

App Message	Actions to Take
END OF SUSPEND	Check BG. Resume basal delivery if necessary.
LOW RESERVOIR	Change Patch soon.
PATCH EXP IN 1 HOUR	Change Patch soon.
PATCH BATTERY LOW	Change Reservoir Patch soon.

Alarm (Medium Priority)

App Message	Actions to Take
PATCH EXPIRED	Change Patch. Check blood glucose.
EMPTY RESERVOIR	Change Patch. Check blood glucose.
EXCEEDS MAX TDD	Check blood glucose. Resume basal delivery
PUMP OUT OF RANGE	Move smart device close to Pump. If failed to recover Pump signal, please change Patch.
PATCH DEACTIVATED	Check if a new patch has been connected and follow the instruction to activate the new patch. Otherwise, change to a new patch.

Alarm (High Priority)

App Message	Actions to Take
OCCLUSION DETECTED	Change Patch. Check blood glucose.
PATCH ERROR	Change Patch. Check blood glucose.
PUMP BASE ERROR	Remove Pump. Contact customer support Check blood glucose.
PATCH DEACTIVATED	Change Patch.

Emergency Kit

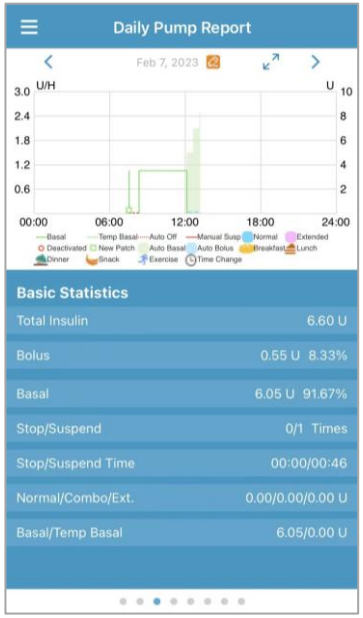
Keep an emergency kit with you at all times to make sure you have necessary supplies. Inform a family member, co-worker, and/or friend where this emergency kit is kept.

This kit should include but is not limited to:

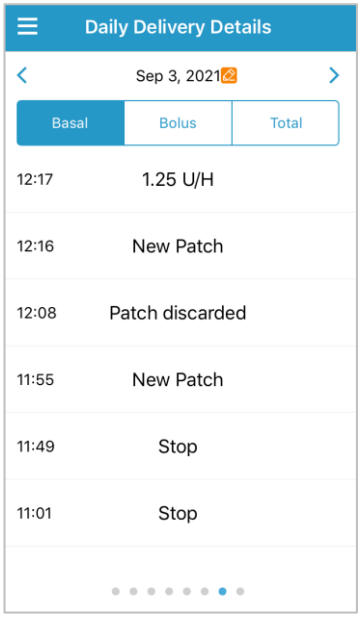
- Fast-acting glucose tablets or gel
- BG monitoring supplies
- Urine ketone testing supplies
- Insulin syringe
- Rapid-acting U-100 insulin
- Extra Medtrum 2.0 mL Reservoir Patches
- Power Bank
- Instructions from your healthcare provider about how much insulin to inject if pump delivery is interrupted
- Alcohol wipes
- Glucagon emergency kit
- Emergency contact phone numbers
- If travelling, a copy of a letter from your healthcare provider for airline security

Statistics

You can view the Pump data by either tapping and selecting a day or tapping < / > to move back / forward.



Daily Pump Report



Daily Delivery Details

Event Summary

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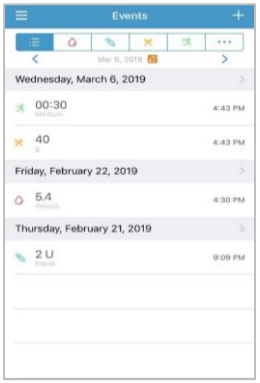
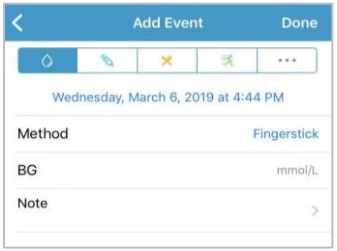
Main Menu ➔ Events

This screen shows all the events before a certain date which can be changed by tapping and selecting a day or tapping < / > to move back / forward.



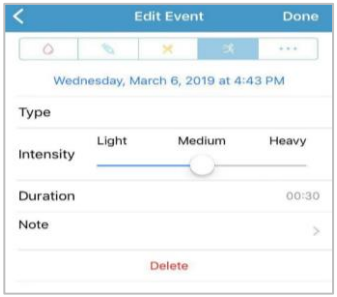
1. Add an event

Tap to add BG, injection, food carbs, exercise or other events.



2. Edit events

Tap **Done** to save or tap **Delete** to delete an event.



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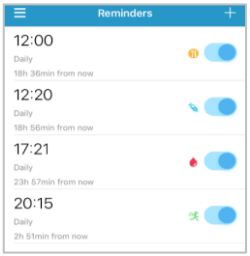
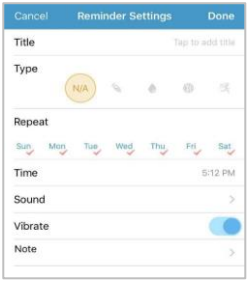
Reminders

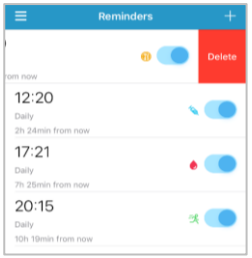
1. Personal Reminder

The personal reminders can be useful to remind you when to check your blood glucose, do bolus etc.

Tap ⊞ to add a reminder, slide a reminder from right to left and tap **Delete** to delete it.



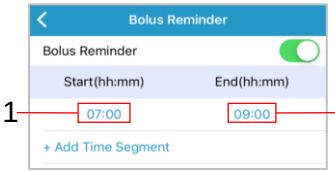




2. Bolus Reminder

Main menu ➔ Settings ➔ Insulin Pump ➔ Bolus Reminder

When you forget to deliver a bolus between time point A and time point B, you will receive a Reminder at time point B.



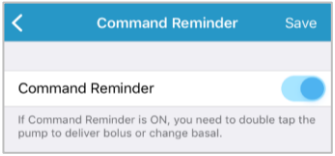
Time Point A

Time Point B

3. Command Reminder

Command reminder is for insulin pump only. When the Command Reminder is ON, you need to tap the pump 2 times to confirm bolus delivery or basal change.

If you don't double tap the pump within 30 seconds, the delivery or change will be cancelled.



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Max Basal Rate: _____ U/H

Basal Pattern Name: _____			
Start Time	Rate (U/H)	Start Time	Rate (U/H)
:		:	
:		:	
:		:	
:		:	
:		:	
:		:	
:		:	

Basal Pattern Name: _____			
Start Time	Rate (U/H)	Start Time	Rate (U/H)
:		:	
:		:	
:		:	
:		:	
:		:	
:		:	
:		:	

Name	Rate	Duration
Heavy Exercise	_____ % or _____ U/H	:
Medium Exercise	_____ % or _____ U/H	:
Light Exercise	_____ % or _____ U/H	:
Sick	_____ % or _____ U/H	:
Temp 1	_____ % or _____ U/H	:
Temp 2	_____ % or _____ U/H	:
Temp 3	_____ % or _____ U/H	:

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Your Personal Settings

I:C Ratio	
Start Time	I:C (g Carb)
:	1 U : _____ g
:	1 U : _____ g
:	1 U : _____ g
:	1 U : _____ g
:	1 U : _____ g
:	1 U : _____ g
:	1 U : _____ g

Insulin Sensitivity	
Start Time	ISF (mmol/L)
:	1 U : _____ mmol/L
:	1 U : _____ mmol/L
:	1 U : _____ mmol/L
:	1 U : _____ mmol/L
:	1 U : _____ mmol/L
:	1 U : _____ mmol/L
:	1 U : _____ mmol/L

BG Target (mmol/L)		
Start Time	Low Limit	High Limit
:		
:		
:		
:		
:		
:		
:		

Max Bolus: _____U

Active Insulin Time: _____ : _____

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This product complies with Directive 93/42/EEC (MDD) and Directive 2014/53/EU (RED).

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