

# TouchCare<sup>®</sup> Insulin Pump System

Quick Start Guide (mmol/L)



[www.medtrum.com](http://www.medtrum.com)

Simplifying Diabetes

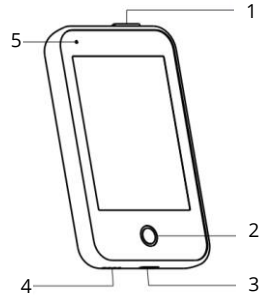
# Medtrum

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# Insulin Pump System Overview

## The Personal Diabetes Manager (PDM)

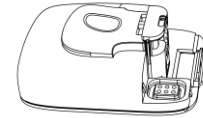


1. Power button
2. Home Key (Software Key)
3. Charging Port
4. Sound Hole
5. Indicator light

## Pump Base



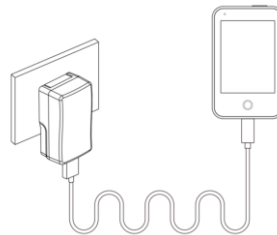
## Reservoir Patch








- Your 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 PDM via Bluetooth Low Energy (communication range 4 meters without blocking).
- The Patch Pump (Base and Patch connected) is waterproof at 8 feet (2.5 meters) for 60 minutes (IP28).
- Store the Pump Base and Reservoir Patch at temperatures between  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ) and  $55^{\circ}\text{C}$  ( $131^{\circ}\text{F}$ ).

## Charge PDM

The PDM requires an AC adapter with an output of DC 5.0V

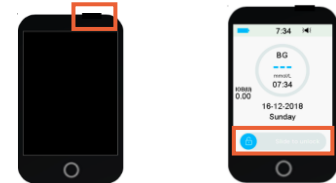


-  Fully charged
-  Charging
-  Not charging
-  Battery low
-  Battery empty

# PDM Settings

## 1. Turn on/off the PDM

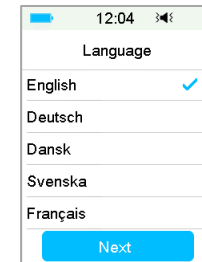
- **Turn-on** - Long-press the power button, a green light will flash.
- **Turn-off** - Long-press the power button for about 2 seconds, then slide to power off. Or long-press the power button for about 8 seconds.



## 2. Wake the PDM

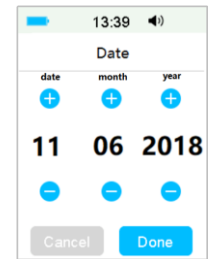
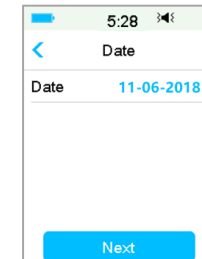
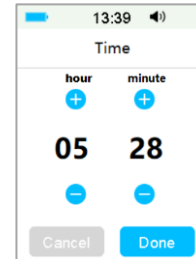
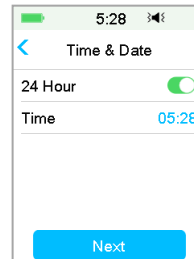
When the screen goes black, press the power button and then slide to unlock

## 3. Select language



## 4. Set time and date

**Note:** You can only change the date and time when there is no activated Reservoir Patch.



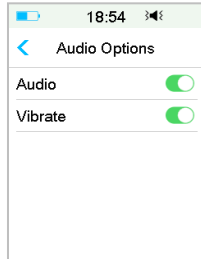
## 5. Bolus Calculator

Refer to Page 5

## 6. Set audio options

Main Menu → Settings → General → Audio Options

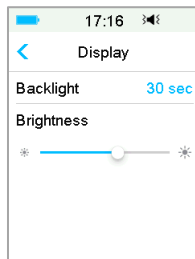
If you set the audio option to Audio off /Vibrate off, your PDM only vibrates when a serious Alarm occurs.



## 7. Set display settings

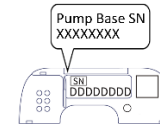
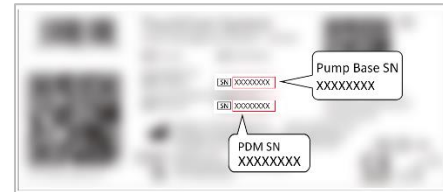
Main Menu → Settings → General → Display

It is recommended for new users to set backlight time as 2 minutes



## 8. Find Pump Base SN

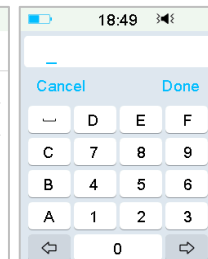
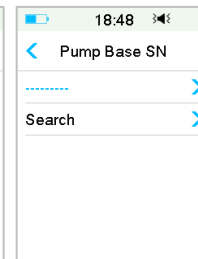
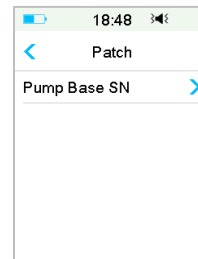
You can find the Pump Base SN on the product box or on the back of the Pump Base.



## 9. Enter Pump Base SN

Main Menu → Patch → Pump Base SN

Tap ----- to enter SN manually



# Basal Settings

Main Menu → Settings → Insulin Pump → Basal Setup

## 1. Max Basal

Tap the Max Basal rate to edit it

## 2. Edit Basal Pattern

1. Tap Edit Basal, then select the Pattern to edit it

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
- Slide on segment back to right to cancel deleting

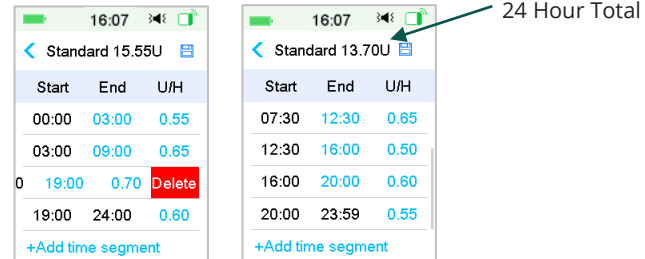
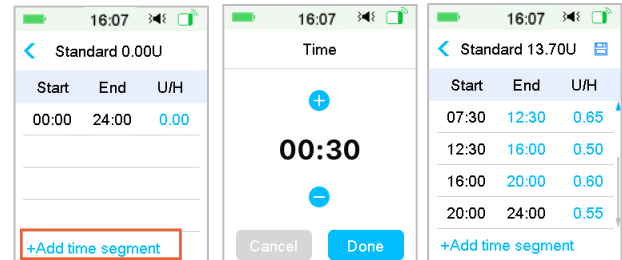
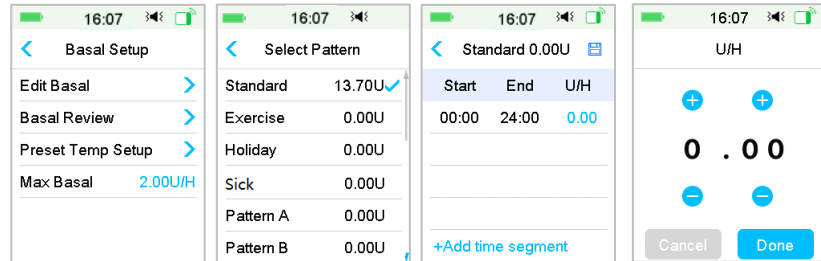
5. Scroll up and down to review all segments

6. Tap  to save the settings

**Note:** Recheck all the numbers you entered to make sure that they are the intended values.

## 3. Select a Basal Pattern

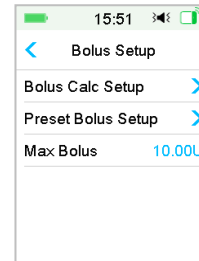
Main Menu → Basal → Select Pattern



Main Menu → Settings → Insulin Pump → Bolus Setup

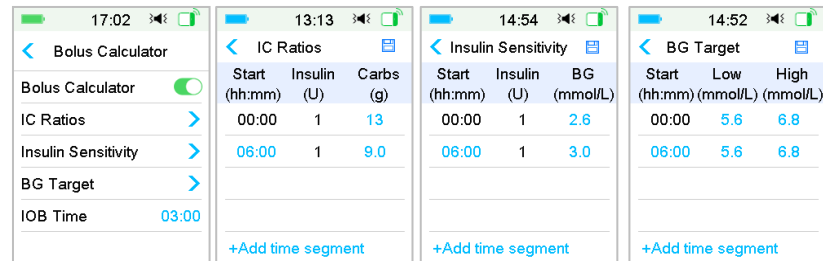
## 1. Max Bolus

Tap the Max Bolus to edit it

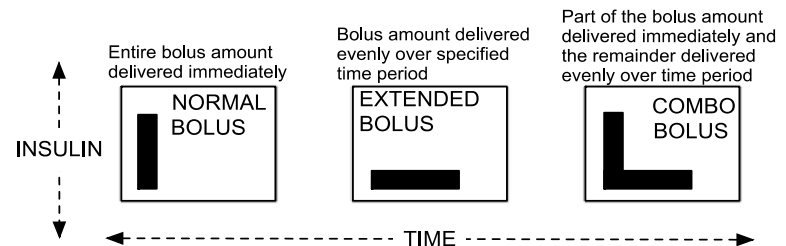


## 2. Set up the Bolus Calculator

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



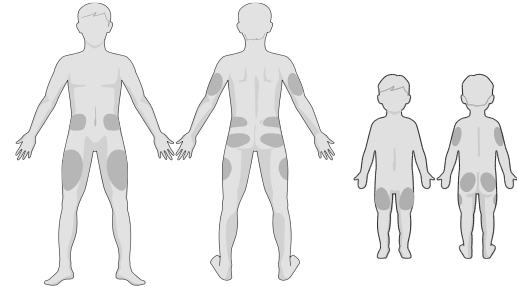
## 3. Normal, Extended and Combo Bolus



# Start a new Patch

## 1 Select the infusion site

- Clean, less hair, no sweat, uncovered, enough fat (at least 5mm thick), away from navel.
- 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.

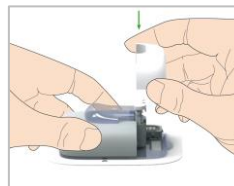
## 2 Prepare the infusion site

- 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 → Patch → 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.



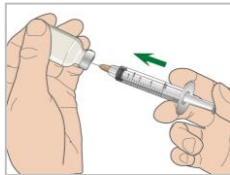
The Pump beeps four times

## 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.



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.

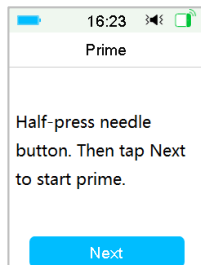
### Remove air



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.



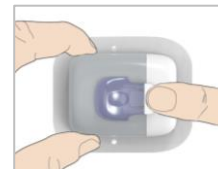
5. Slowly fill the Reservoir with insulin



## 5 Prime the Pump

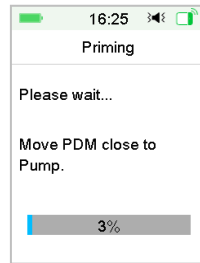


- Half-Press the needle button until it clicks.**  
Do not start priming before the needle button is half-pressed.

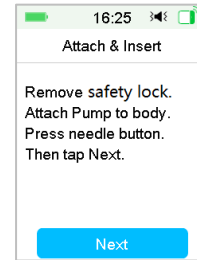


# Start a new Patch

Keep your smart device 30 cm away from pump.

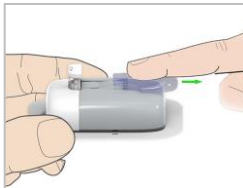


Priming takes about 3 minutes.

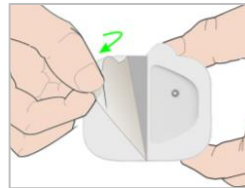


## 6 Place the Patch

1. Remove the safety lock horizontally



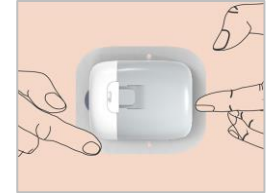
2. Peel off the adhesive liners



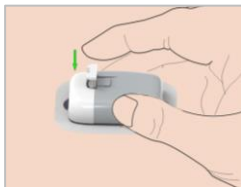
3. Attach the Pump on your skin



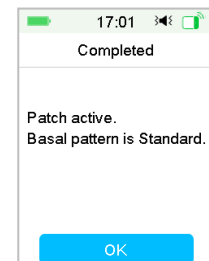
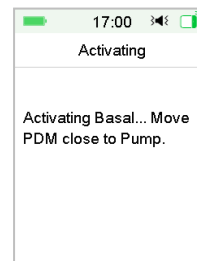
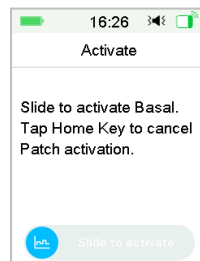
4. Run your finger around the entire edge of the adhesive pad and press the pump in place for 5 seconds



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

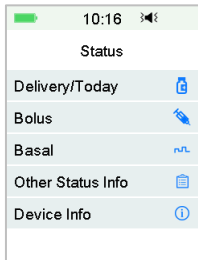
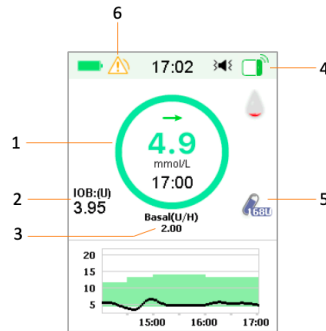


## 7 Start Insulin Delivery



## Home Screen

1. Insulin Delivery Status
2. IOB
3. Delivery details
4. Pump RF Signal
5. Remaining insulin in Reservoir
6. Alarm/Alert

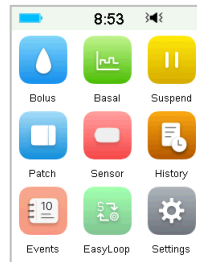


## Pump Status

Slide on the Home Screen from left to right to go to status screen

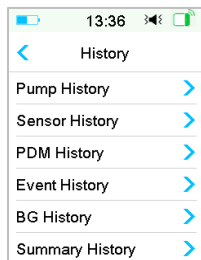
## Main Menu

Slide on the Home Screen from right to left to go to main menu



## History

Main Menu → History



## 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.

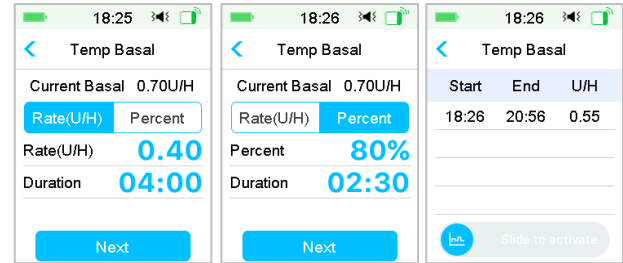
# Temp Basal

## Activate a Temp Basal

Main Menu → Basal → Temp Basal

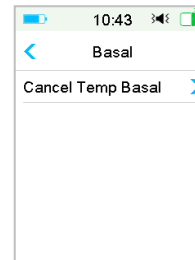
With a Temp Basal you can adjust your Basal rate for a short time

Select a Basal type, rate or percent and duration



## Cancel a Temp Basal

Main Menu → Basal → Cancel Temp Basal

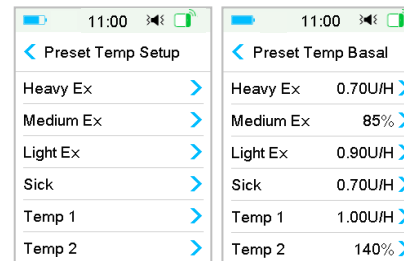


## Set Preset Temp Basal

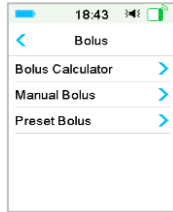
Main Menu → Settings → Insulin Pump → Basal Setup → Preset Temp Setup

## Activate a Preset Temp Basal

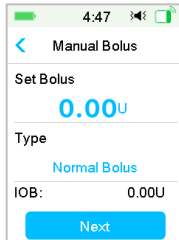
Main Menu → Basal → Preset Temp Basal



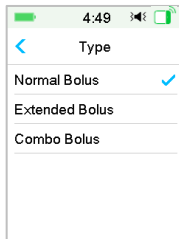
1 Main Menu → Bolus → Manual bolus



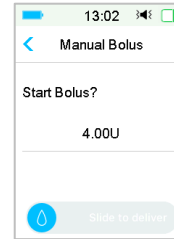
2 Set Bolus dose



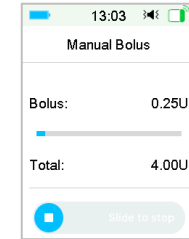
3 Set Bolus type



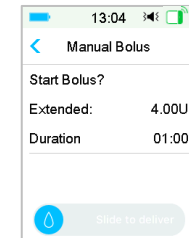
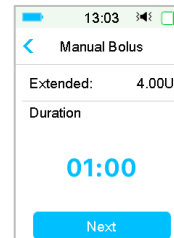
Normal Bolus



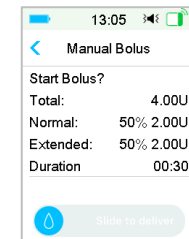
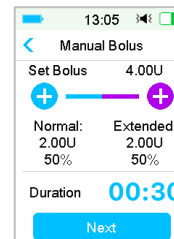
4 Slide to deliver



Extended Bolus  
Set duration

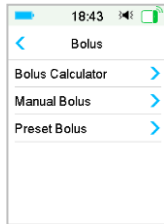


Combo Bolus  
Tap blue/purple plus sign to set proportion of Normal part and Extended part  
Set duration

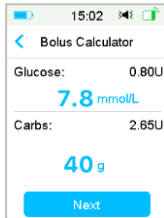


# Food Bolus Calculator

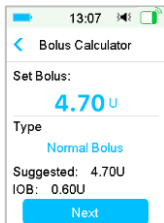
1 Main Menu → Bolus → Bolus Calculator



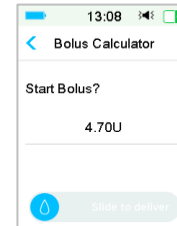
2 Enter BG or Carb, or both



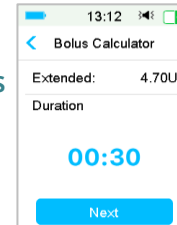
3 Set Bolus dose and Bolus type



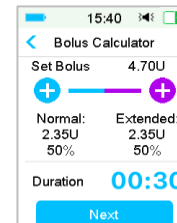
Normal Bolus



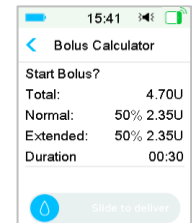
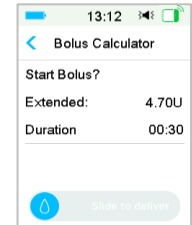
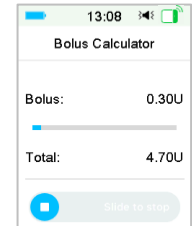
Extended Bolus  
Set duration



Combo Bolus  
Tap blue/purple plus sign to set proportion of Normal part and Extended part  
Set duration



4 Slide to deliver

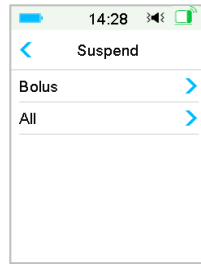


# Suspend & Resume

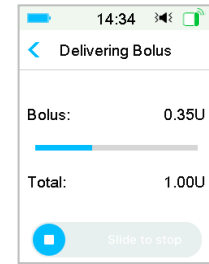
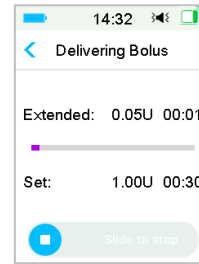
## Suspend

Main Menu → Suspend

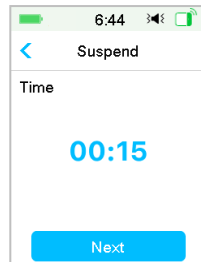
A Bolus is being delivered



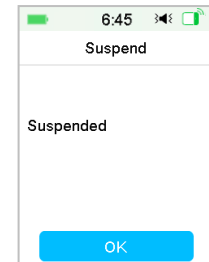
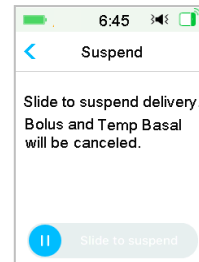
Bolus



All

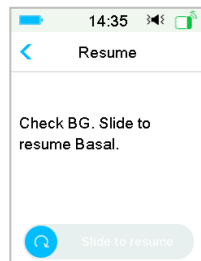


No Bolus is being delivered



## Resume

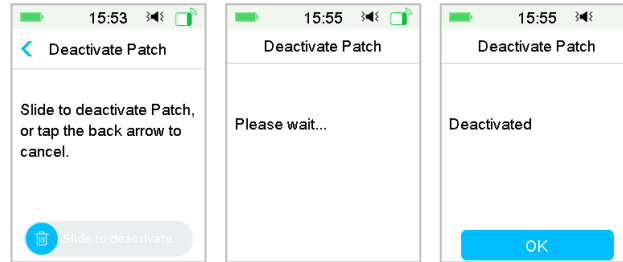
Main Menu → Resume



# Deactivate the Patch

## 1 Deactivate the Patch

Menu → Patch → Deactivate Patch



## 2 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.

## Alert



PDM 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)



PDM 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 PDM close to Pump. If failed to recover Pump signal, please change Patch.
PUMP RESTARTED	Patch changed? For help call the CC.

## Alarm (High Priority)



PDM 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.

## 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 traveling, a copy of a letter from your healthcare provider for airline security

# Your Personal Settings

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	:

# 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
:	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
:	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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Simplifying Diabetes

# Medtrum