

TouchCare® Insulin Pump System

Quick Start Guide (mg/dL)



www.medtrum.com

Simplifying Diabetes

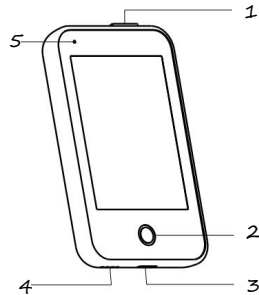
Medtrum

Contents

Insulin Pump System Overview	1
PDM Settings	2
Basal Settings	4
Bolus Settings	5
Start a new Patch	6
Read Pump	9
Temp Basal	10
Manual Bolus	11
Food Bolus Calculator	12
Suspend & Resume	13
Deactivate the Patch	14
Alerts & Emergency Kit	15
Your Personal Settings	16

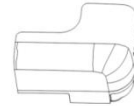
Insulin Pump System Overview

The Personal Diabetes Manager (PDM)

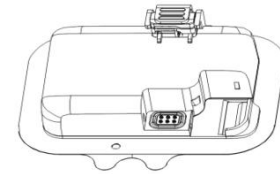


1. Power button
2. Home Key (Software Key)
3. Charging Port
4. Sound Hole
5. Indicator light

Pump Base



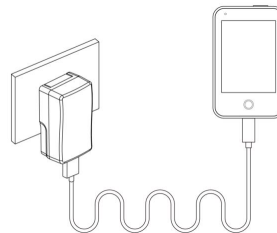
Reservoir Patch



- Your ultra-thin Patch Pump is composed of a reusable Pump Base (MDO401) and a disposable Reservoir Patch (MDO400) which stores up to 400 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 14°F (-10°C) and 131°F (55°C).

Charge PDM

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

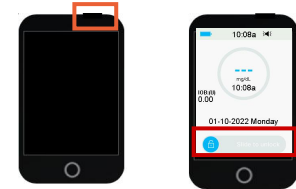


- Fully charged
- Charging
- Not charging
- Battery low
- Battery empty

PDM Settings

1. Turn on/off the PDM

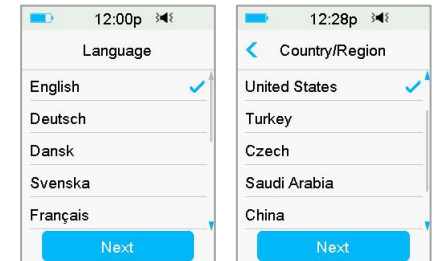
- **Turn-on** - Long-press the power button, a green light will flash.
- **Turn-off** - Long-press the power button for about 2 seconds, then slide to power off. Or long-press the power button for about 8 seconds.



2. Wake the PDM

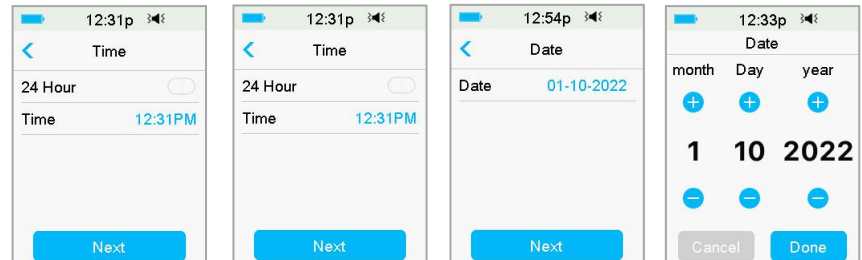
When the screen goes black, press the power button and then slide to unlock

3. Select language and country



4. Set time and date

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



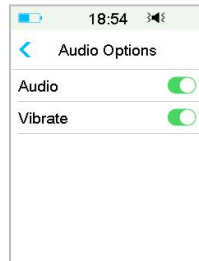
5. Bolus Calculator

Refer to Page 5

6. Set audio options

Main Menu → Settings → General → Audio Options

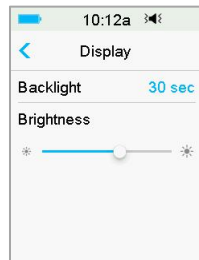
If you set the audio option to Audio off /Vibrate off, your PDM only vibrates when a serious Alarm occurs.



7. Set display settings

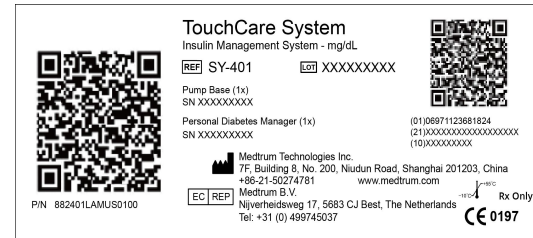
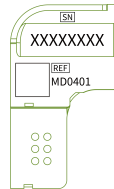
Main Menu → Settings → General → Display

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



8. Find Pump Base SN

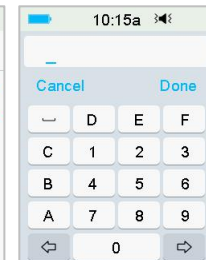
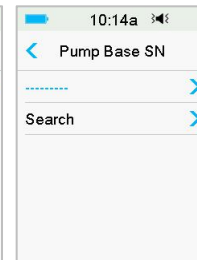
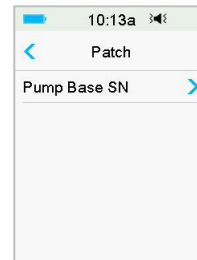
You can find the Pump Base SN on the product box or on the back of the Pump Base.



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

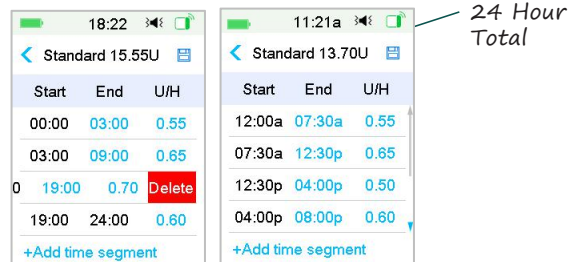
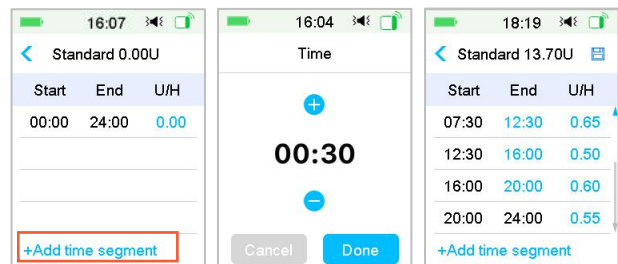
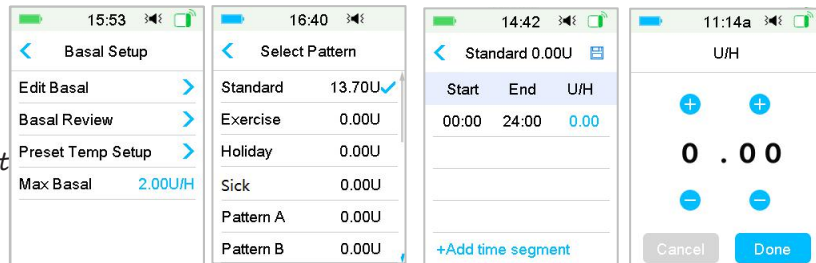
- Slide to left on each segment, tap Delete. The start time of next segment will be adjusted
- Slide on segment back to right to cancel deleting

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

5. Scroll up and down to review all segments

6. Tap  to save the settings

3. Select a Basal Pattern



24 Hour Total

Main Menu → Settings → Insulin Pump → Bolus Setup

1. Max Bolus

Tap the Max Bolus to edit it

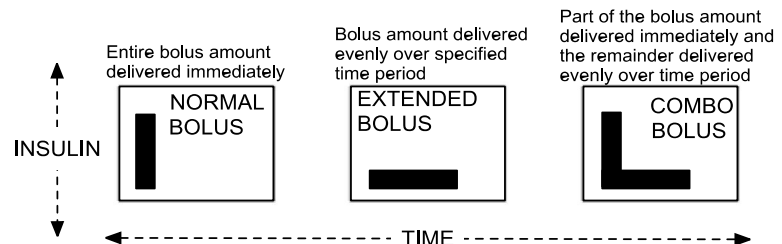


2. Set up the Bolus Calculator

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



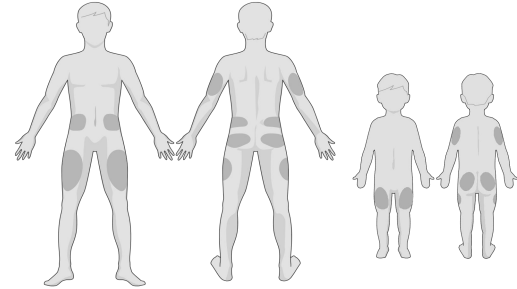
3. Normal, Extended and Combo Bolus



Start a new Patch

1 Select the infusion site

- Clean, less hair, no sweat, uncovered, enough fat (at least 0.2 in thick), away from navel.
- A new infusion site should be at least 1 inch (2.5 cm) 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.

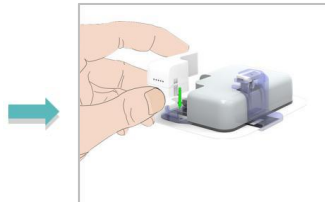
2 Prepare the infusion site

- 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 and push down all the way until the pump base is locked in place to the reservoir patch.



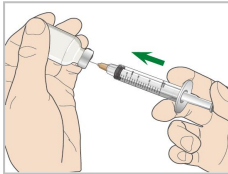
The pump beeps four times

4 Fill the New Reservoir Patch

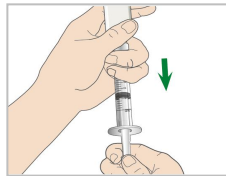
With the help of your healthcare provider, decide on the amount of insulin (70 U – 400 U) you need to insert into the Reservoir Patch.

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.

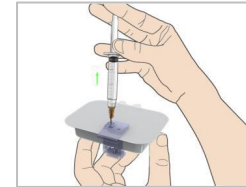


2. Fill the syringe with insulin.

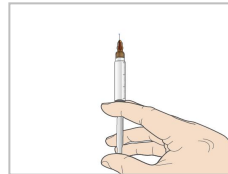


Remove air

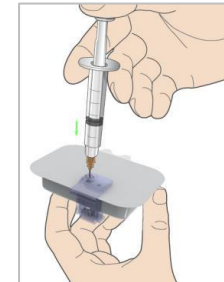
3. Keep the syringe vertical to the Patch Pump, and the needle inside the fill port. Retract the plunger to remove air bubbles.



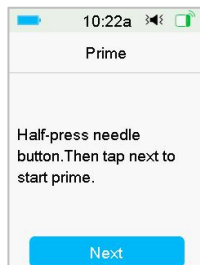
4. Push the plunger until you see a drop of insulin at the tip of the needle



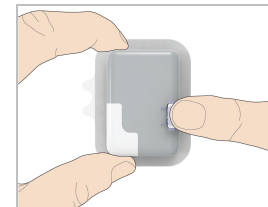
5. Slowly fill the Reservoir with insulin



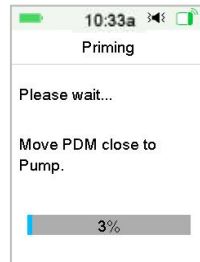
5 Prime the Pump



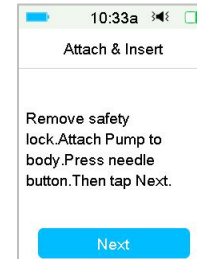
Press needle button
Do not start priming
before the needle button
is pressed.



Start a new Patch

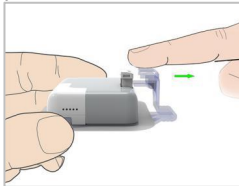


Priming takes about 3 minutes.

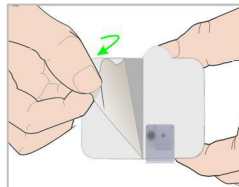


6 Place the Patch

1. Remove the safety lock



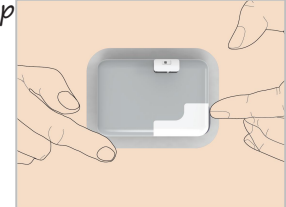
2. Peel off the adhesive liners



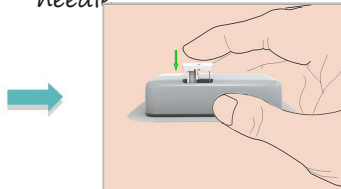
3. Press the Pump against the skin



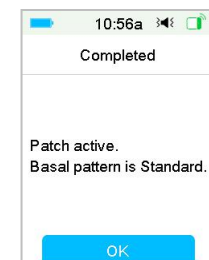
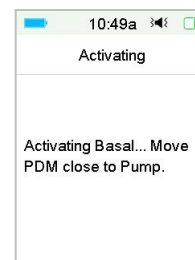
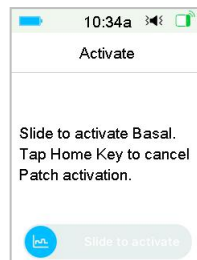
4. Run your finger around the entire edge of the adhesive p



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

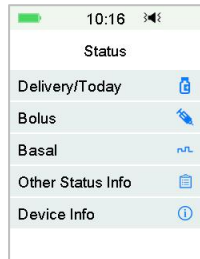
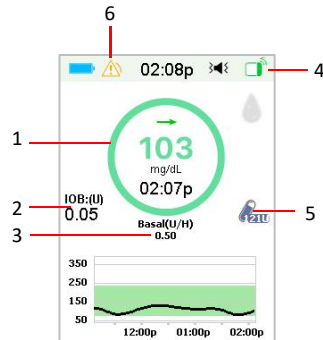


7 Start Insulin Delivery



Home Screen

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

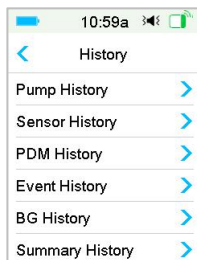
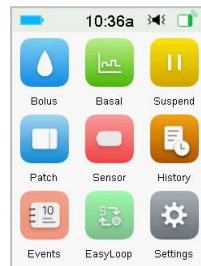


Pump Status

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

02:09p Temp Basal

Current Basal 0.50U/H

Rate(U/H) 0.40

Duration 04:00

Next

02:12p Temp Basal

Current Basal 0.50U/H

Rate(U/H) Percent

Percent 80%

Duration 02:30

Next

02:14p Temp Basal

Start	End	U/H
02:14p	04:44p	0.50

Slide to activate

Cancel a Temp Basal

Main Menu → Basal → Cancel Temp Basal

02:15p 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

02:16p Preset Temp Setup

Heavy Ex

Medium Ex

Light Ex

Sick

Temp 1

Temp 2

02:18p Preset Temp Setup

Heavy Ex 0.70U/H

Medium Ex 85%

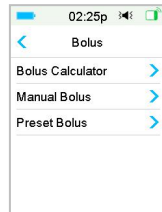
Light Ex 0.90U/H

Sick 0.70U/H

Temp 1 1.00U/H

Temp 2 140%

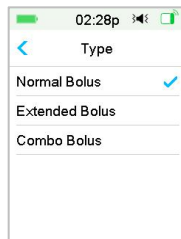
1 Main Menu → Bolus → Manual bolus



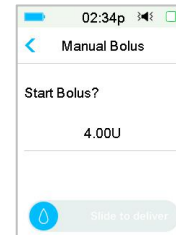
2 Set Bolus dose



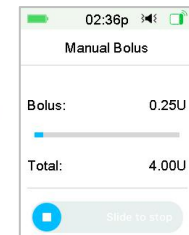
3 Set Bolus type



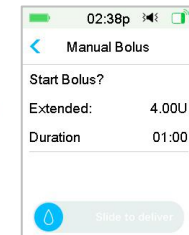
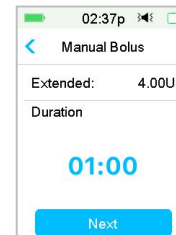
Normal Bolus



4 Slide to deliver

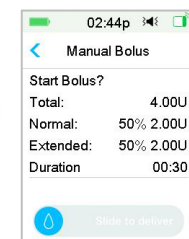
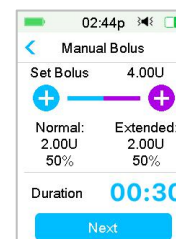


Extended Bolus Set duration



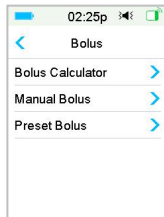
Combo Bolus

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

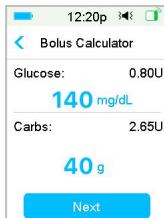


Food Bolus Calculator

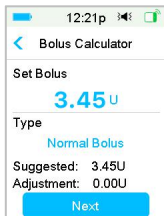
1 Main Menu → Bolus → Bolus Calculator



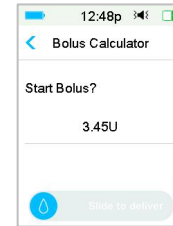
2 Enter BG or Carb, or both



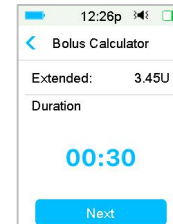
3 Set Bolus dose and Bolus type



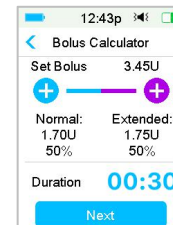
Normal Bolus



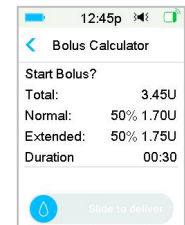
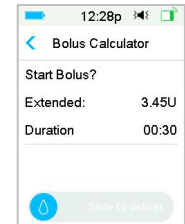
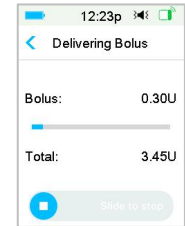
Extended Bolus
Set duration



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



4 Slide to deliver

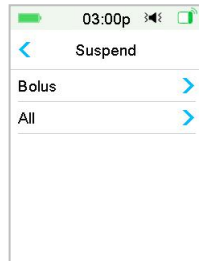


Suspend & Resume

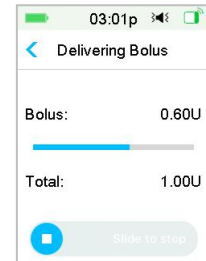
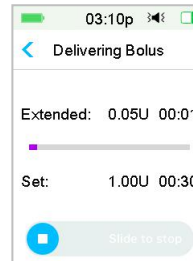
Suspend

Main Menu → Suspend

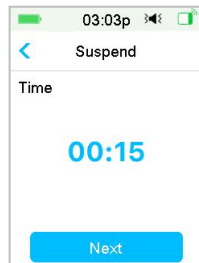
A Bolus is being delivered



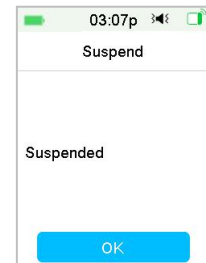
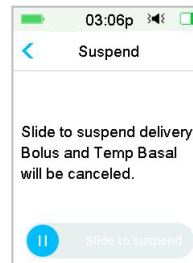
Bolus



All

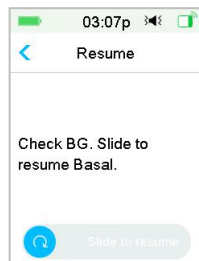


No Bolus is being delivered



Resume

Main Menu → Resume



Deactivate the Patch

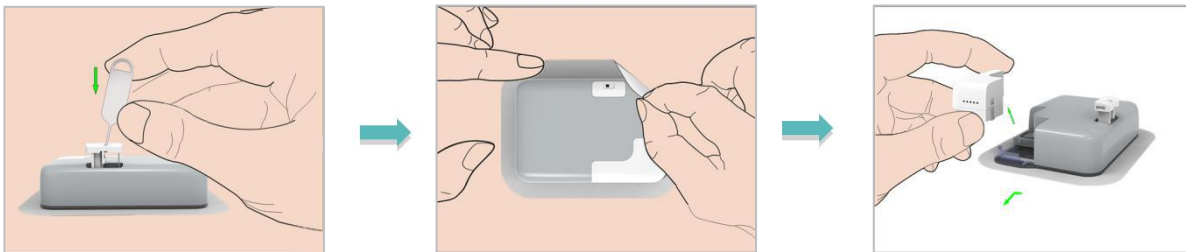
1 Deactivate the Patch

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.

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	Change Patch. Check blood glucose. Check history.
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 4.0 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	:

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

BG Target (mg/dL)		
Start Time	Low Limit	High Limit
:		
:		
:		
:		
:		
:		
:		

Insulin Sensitivity	
Start Time	ISF (mg/dL)
:	1 U : _____ mg/dL
:	1 U : _____ mg/dL
:	1 U : _____ mg/dL
:	1 U : _____ mg/dL
:	1 U : _____ mg/dL
:	1 U : _____ mg/dL
:	1 U : _____ mg/dL
:	1 U : _____ mg/dL

Max Bolus: _____ U

Active Insulin Time: _____ : _____

Labelling requirements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Information to user

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: *This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*

RF warning for portable device

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



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CE 0197

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

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Simplifying Diabetes

Medtrum