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1. Introduction

1. Diabecare DANA-i Insulin Pump Introduction

The **Diabecare DANA-i** Insulin Pump herein after will be referred to as 'Insulin Pump' throughout the manual.

Warning The Diabecare DANA-i system is only to be used by patients who have received training from a certified diabetes educator and/or insulin pump trainer and by advice from a physician.

For safety and optimum benefits read the entire user manual before using the system.

Caution Read these instructions for use carefully and completely before using this device for the first time. Especially, users who have used other pumps should be cautious.

2. Explanation of Warning Symbols

Warning Indicates the presence of a hazard which can cause severe personal injury, death or substantial property damage if the warning is ignored.

Caution Indicates the presence of a hazard which will or can cause minor personal injury or property damage if the warning is ignored.

Notice Advises the user of installation, operation or maintenance information which is important but not hazard related.

3. Indications for Use

The **Diabecare DANA-i** Insulin Pump is intended for the subcutaneous delivery of insulin for the treatment of diabetes mellitus. The device is not intended for use with blood or blood products,

This Insulin Pump is indicated for use in 2 years of age and greater. (USA Only)

4. Contradiction

Insulin Pump therapy is not recommended for people whose vision or hearing does not allow recognition of pump signals and alarms.

5. Potential Risks

Infection

Irritation

• Skin irritation or redness

Rash

Bruising

Hypoglycemia

• Discomfort or pain

Hyperglycemia

Bleeding

6. Airport Security

Do not expose the system to x-ray screening used for carry-on and checked luggage. Newer full body scanners used in airport security screening are also a form of x-ray and the system should not be exposed to them. Notify the TSA Agent that the system cannot be exposed to x-ray machines and request an alternate means of screening.

Visit TSA's website if you have any questions or concerns, www.tsa.gov

The Insulin Pump, Infusion set, reservoir can withstand exposure to airport metal detectors used at airport security checkpoints.

7. Precautions

- 1. Pump users need more than 4 blood glucose measurements per day, and vision and hearing to receive any pump alarm.
- 2. Patients must not open the Pump housing or handle any internal components.
- The Diabecare DANA-i Insulin Pump is intended for use with a proprietary Infusion Set, reservoir and other accessories specified in this booklet. DO NOT use the Pump with any other infusion system or accessories.
- 4. Press buttons with the pad of the finger, DO NOT use fingernails or any sharp objects.
- 5. The Insulin Pump comes with factory default settings and alarms, maximum daily totals, basal and bolus doses, These settings can be adjusted by a healthcare professional.

Glucose Check Alarm	120min
Maximum Daily Total	80u
Maximum Bolus	40u
Maximum Basal	3.3u/h

- The pump is indicated for use with U-100 NovoLog insulin. The other insulin has not been tested and may not be compatible for use with the Diabecare DANA-i insulin pump.
- 7. Change the reservoir and the Infusion Set regularly, as recommended by your healthcare professional. DO NOT use for longer than the intended period.
- 8. Check the expiration dates and dispose of any expired accessories.

- Avoid impact damage such as dropping. If there is any known damage of pump and accessory, contact your healthcare professional or technical support from the local Insulin Pump distributor.
- 10. For any trouble with any of the system components, turn off the Insulin Pump by removing the battery and contact a healthcare professional or Insulin Pump trainer.
- 11. Remove the battery for long-term storage.

 $\mathbf{3}$

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2. Getting Started

To make proper use of **Diabecare DANA-i** Insulin pump, the accessories and other components are required

* Components of Diabecare DANA-i System





DANA Auto Setter (1)

Notice

• Additional accessories may be purchased separately.

1. Getting to know the DANA Insulin Pump

1. Reservoir Cap

2. Battery Cap

3. Reservoir Window

4. Control Panel

5. LCD screen

* Diabecare DANA-i Insulin Pump

1. Reservoir Cap

The reservoir and linking screw are inserted in this compartment. Turn the reservoir cap clockwise ¼ turn to open.

2. Battery Cap

The battery is inserted in this compartment. Turn the battery cap clockwise 1/4 turn to open.

3. Reservoir Window

Reservoir volume can be visually verified here.

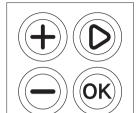
4. Control Panel

Includes the four buttons which are used to navigate the insulin pump menus, adjust settings and select functions.

5. LCD screen

Displays the pump status, system features and system messages. This is the user interface for operation of the Insulin Pump. Lights automatically when buttons are pressed.

* Control Panel



- Press to increase values
- Press to move to the next menu option
- ® Press to select or confirm



2. Installing a battery



Insulin Pump

- 1. Open the battery cap by inserting the into the battery cap slot and turning clock-wise ¼ turn.
- 2. Insert the battery with the positive at top and insert the (-) into the Insulin Pump.
- 3. Replace the battery cap turning it counter clock-wise.
- 4. Completed when the cap is tightly locked with insulin pump.

Warning Change the battery in a clean dry environment to prevent water/ ingress from entering the pump case. The battery cap is correctly installed with a push and 1/4 turn counter clock-wise to locked. This prevents water/ingress.

Caution The pump required one AAA 1.5V battery. Use a new AAA alkaline battery. Do not use a carbon zinc battery in your pump. Carbon zinc batteries are not compatible with this pump.

Caution Lithium batteries are not recommended as the battery level indicator may not be accurate.

Caution

- DO NOT attempt to change the battery while a bolus is in progress.
- Dispose of used batteries in an environmentally friendly way according to local disposal requirements or contact your local insulin pump distributor for disposal information.
- It is recommended to keep a spare battery as backup.
- For accurate reading of the remaining battery charge, check the battery display following the delivery of a bolus

Notice

• The Diabecare DANA-i Insulin Pump is powered by an external (AAA) Battery

Notice

• SOOIL recommend using either a Duracell alkaline AAA battery or an 'Energiser Advanced' alkaline AAA battery.

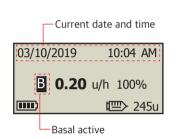


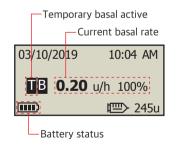


3. Display Screen

* Initial Screen

The initial screen is the first menu display. Enter by depressing any key from battery save mode.





Current date and time

Time system option 12/24 available

Month/day/Year hh:mm am/pm

Refer to 3.1 Setting the time and date

Notice When the time is set to '12', "AM/PM" will be shown.

Basal active

This icon symbol flashes when basal is active.

Temporary basal active

This icon **I** symbol flashes when a temporary basal is active.

Current basal rate

Any number less than or greater than 100 indicates a temporary basal is active.

Refer to 6.1 Temporary Basal

*100% is normal basal delivery state.

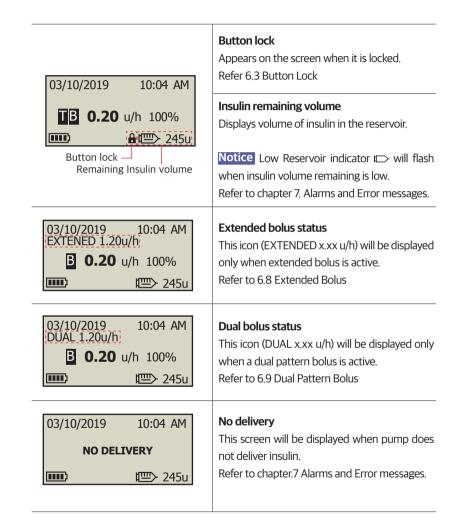
*u/h = units/hour

Battery status

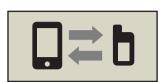
Displays remaining battery charge as, 100%, 75%, 50%, 25%, 0%

Notice Lithium batteries may not give an accurate battery level indicator.

Alkaline batteries are recommended.



* Remote control mode

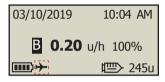


Remote control mode

When the smartphone with app installed is connected to the pump, the pump screen is displayed as shown in the figure.

In this state, the button of the pump does not work.

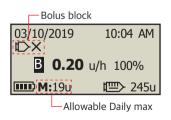
Notice You can disconnect by pressing the \bigcirc key for more than 5 seconds.



Airplane mode

This icon will be displayed only when airplane mode is ON. The Bluetooth function is interrupted/OFF
Refer to 6.7 Airplane Mode.

* Additional Options



Bolus block

This icon I⇒X is displayed when bolus Block is active. This prevents a bolus repetition during the pre-set block time period.

Allowable Daily max

This icon (M:19u) is displayed when the total daily dose is high and nearing the allocated daily maximum set. Remaining units displayed from less than 20u (default) displayed.

Notice

- Additional options are configured by the Healthcare Provider or Insulin Pump Trainer.
- To save battery power the screen will automatically revert to blank after one minute without any button depressed. Pressing any button will illuminate the display and also activate the backlight for 10 seconds. (Refer to chapter 3.4 Setting User Options- "LCD on(s)" and "Backlight on(s)")

4. Patient Education

Follow up education is recommended for all insulin pump users.

- 1. When starting on insulin pump therapy, the patient should have daily contact with the pump trainer and/or medical professional.
- 2. Visit with the Endocrinologist, Diabetologist or Advanced Practice Nurse within 3-7 days.
- 3. At first schedule weekly/biweekly consults then periodically as needed and advised.
- 4. Visit specialist monthly until pump regimen is established and then at least once every three months or intervals advised by your medical professional.

* About Doctor Mode

DOCTOR MODE is a configuration menu accessed only by healthcare professionals and certified insulin pump trainers. These settings are generally related to safety and to insulin dosages about individual patients,

✓ Preset Bolus ✓ Maximum Basal

✓ Glucose Check Alarm ✓ Maximum Bolus

✓ Bolus Block ✓ Maximum Daily Total

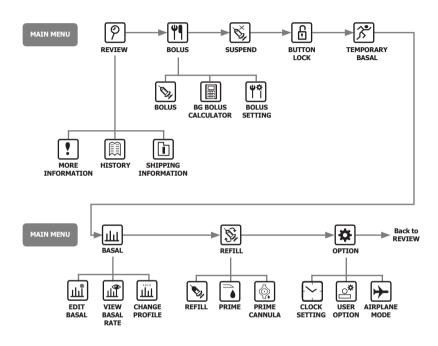
✓ Bolus Increment
 ✓ Basal Increment
 ✓ Block Sensitive
 ✓ Clock (adjust time & date)
 ✓ UTC time Adj

√ Decrease Ratio (Active Insulin)

Contact your healthcare professional in order to change these settings.

3. Programming the Insulin Pump

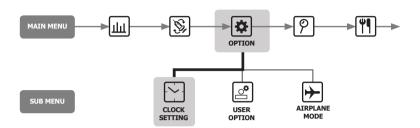
* Structure of DIABECARE DANA-i Menu:



Warning Follow the training and advice of a pump specialist Healthcare professional and certified Insulin pump trainer whilst inputting the initial settings. Incorrect settings may cause serious harm.

1. Adjust the time

Setting the correct time is necessary for accurate basal insulin delivery and for retaining an accurate record of all insulin delivery.



TIMEZONE : 00 UTC TIME 01/01/2019 00:00:00 LOCAL TIME 01/01/2019 00:00:00

From within the Clock Setting menu - adjust the time using the (+) or (-) key. Press (ok) to save the setting.

UTC = 0	Greenwich mean	
-1 hour	West Africa	
-2 hour	Atlantic	
-3 hour	Atlantic	
-4 hour	US East	
-5 hour	US Central / Chile	
-6 hour	Canada	
-7 hour	US Pacific	
-8 hour	Alaska	
-9 hour	South Pacific Ocean	
-10 hour	Hawaii / Rarotonga	
-11 hour	Samoa	

+1hour	UK / Portugal / Europe West
+ 2 hour	France / Germany / Italy
+ 3 hour	Europe East / Istanbul
+ 4 hour	Dubai
+5 hour	Asia / Uzbekistan
+ 6 hour	India
+7 hour	Thailand
+8 hour	West Coast Australia / China
+9 hour	Korea / Japan
+10 hour	East Coast Australia
+ 11 hour	Pacific / Noumea / Norfolk
+ 12 hour	New Zealand

Notice Changing 12 or 24hour clock format refer to 3.4 Setting User Options.

Notice The Diabecare DANA-i Insulin Pump has UTC time. Setting the date and time is only completed within the Dr Mode.

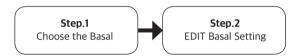
2. Setting the Basal Rate

Basal settings must be programed before using the insulin pump.

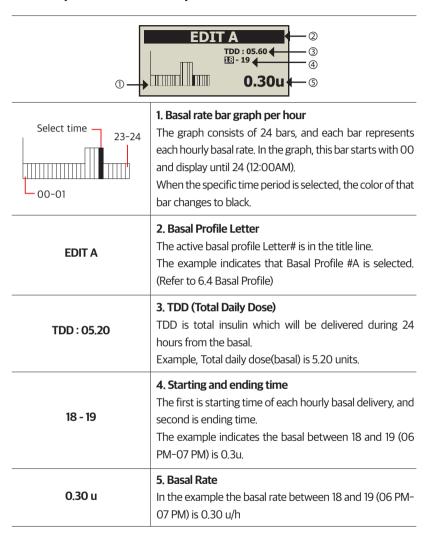
Basal insulin is required to maintain an ideal glucose level while fasting.

Basal insulin infusion rates are specific to individual patients. There are 24 hourly rates each day, these may increase or decrease to match personal insulin resistance and other factors. The healthcare professional will advise what the initial rates need to be set at the start.

Notice It is only possible to EDIT the current (selected) Basal Profile, Default profile is #A. (To change Basal Profile refer to 6.4 Basal Profile)



* Description of Basal Graph:

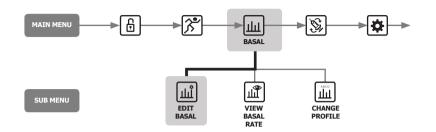


Notice

- Edit basal is only available in 24-hour format.
- Basal increments can be changed by the pump trainer in Dr mode.

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* How to edit the Basal Rate:





1. Within **MAIN MENU** scroll through and select **BASAL** with .



2. Select **EDIT BASAL** and press .



3. The current Basal Profile is displayed, confirm the selection with .



4. The edit basal screen is displayed. The default time is 00-01.



5. Use the ⊕ and ⊜ to adjust the **start** time, press **②** to move to the **End** time.



6. Use the ⊕ and ⊚ to adjust the **End** time. press **©** to move to the **Basal** rate.



7. Use the \oplus and \circleddash buttons to adjust the Basal rate for the selected time.

Press to save the basal rate or press button to move to the start time(step.5).



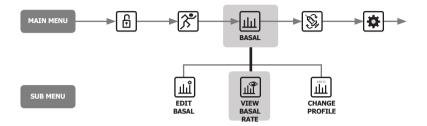
8. When press
to save, a 'SETTING SAVED' screen appears. Press
to finish the setting, or press
to move to the start time to set next Basal rate.



9. To save press . A confirmation message shows that the Basal Rate has changed. Press . to confirm.

3. View Basal Rate

The view basal rate is used to view the current profile's time-specific settings.





1. Select **VIEW BASAL RATE** in BASAL's sub menu and press ®.



2. The current Basal Profile letter is displayed, confirm the selection with ...



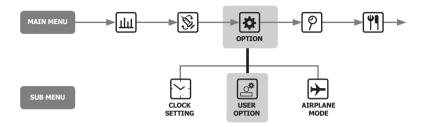
3. The cursor is positioned at the current time.

Press b to see the next time value.

Press to exit.

4. Setting User Options

The user can change the settings related to pump usage through the User option.





1. Select **OPTION** in main menu and press ®.



 Select **USER OPTION** in OPTION's sub menu and press [®].



3. Use the ⊕ and ⊜ buttons to set the user option.
Use ⑨ to move to next item.

* User Options

USER OPTION

2.BUTTON SCROLL:ON

6.BACKLIGHT ON(S):10 7.LANGUAGE:EN

10.LOW RESERVOIR:20

12.CANNULA VOL.:0.4

13.RES. VOL. MOD:245U

8.GLUCOSE UNIT:MG

1.TIME DISPLAY:12

4.ALARM:SOUND

5.LCD ON(S):60

9.SHUTDOWN:0

11.PASSWORD

14.IDEAL BG:100

15.EXIT

3.BEEP:ON

1. TIME DISPLAY

Adjust the time display as 12hour or 24hour.

2. BUTTON SCROLL

When **ON** holding the \oplus or \bigcirc buttons adjusts the value quickly,

3. BEEP

Key Beep ON/OFF enables an audio tone when buttons are depressed.

4. ALARM

Change between **SOUND, VIBRATION** or **BOTH** for alerts and pump alarms.

Notice for safety some important alarms will **SOUND** even though **VIBRATION** is selected.

5. LCD ON(S)

Adjust the duration the LCD remains on before changing to Screen Saver Mode.

Set between (5 - 240) seconds.

6. BACKLIGHT ON(S)

Adjust the duration that the LCD backlight remains on between button presses.

Adjust time for backlight from 0 sec to 60

7. LANGUAGE

Change different language option set by Country / Region.

USER OPTION

- 1.TIME DISPLAY:12 2.BUTTON SCROLL:ON
- 3.BEEP:ON
- 4.ALARM:SOUND
- 5.LCD ON(S):60
- 6.BACKLIGHT ON(S):10
- 7.LANGUAGE:EN
- **8.GLUCOSE UNIT:MG**
- 9.SHUTDOWN:0
- 10.LOW RESERVOIR:20
- 11.PASSWORD
- 12.CANNULA VOL.:0.4
- 13.RES. VOL. MOD:245U
- 14.IDEAL BG:100
- 14.1DEAL BG:100
- 15.EXIT

8 GLUCOSE UNIT

Adjust the unit of measure for Glucose results between **ML** (mmol/L) or **MG** (mg/dL).

Warning Using wrong unit of measure could lead to Glucose results being misinterpret.

9. SHUTDOWN

This is a safety setting, where if no buttons are depressed after the time set (0 - 24) the pump stops deliver and an alarm sounds.

Set the time to (O) to disable this auto off.

10. LOW RESERVOIR

Adjust the LOW RESERVOIR warning alarm threshold (10, 20, 30, 40, 50) units of insulin remaining,

USER OPTION

10.LOW RESERVOIR:20

▶ 11.PASSWORD

12.CANNULA VOL.:0.4

USER OPTION

10.LOW RESERVOIR:20
11.PASSWORD:0000

12.CANNULA VOL.:0.4

PASSWORD

1 A 3 4

SAVE SETTING?

INO:

OK :YES

11. PASSWORD

Change the BUTTON LOCK password. Enter the current PASSWORD and ®. (Default is 1234)

From the PASSWORD screen enter the new password then ® to save. The password can be set from 0 to 9 and A to F.

Caution Password "0000" is easily unlocked.
This may be dangerous for children.

Notice If forget your password number, contact your dealer.

TIP! If you want to unlock easily, set the password small number which is close to zero. For example, "1000" can be unlocked by pressing the button twice.

* User Options

USER OPTION

11.PASSWORD 12.CANNULA VOL.:074 13.RES. VOL. MOD:245U

12. CANNULA VOLUME:

Soft needle cannula has a pre-assigned volume that needs to be filled with insulin before delivery. Set the pre-set the required volume here for the specific cannula used.

(Refer to 10.3 Prime Volume of infusion sets)

USER OPTION

12.CANNULA VOL.:0.4 13.RES. VOL. MOD: 22:5U 14.IDEAL BG

SAVE SETTING?

- :NO OK :YES

13. RES. VOL. MOD:

This is where the remaining reservoir volume in the pump can be adjusted.

Caution Changing the volume to an incorrect amount, may cause the pump to run out of insulin without alarm.

USER OPTION

13.RES. VOL. MOD:245U 14.IDEAL BG:[[U]]
15.EXIT

14. IDEAL BG:

From the internal calculator and 'Smart Bolus' within the pump bolus menu. This is the Ideal or Target BG value.

Use (+) and (-) key to adjust level - (ok) to save.

USER OPTION

14.IDEAL BG:100 15.EXIT 1.TIME DISPALY:12

15. EXIT:

Press
to exit and save settings.

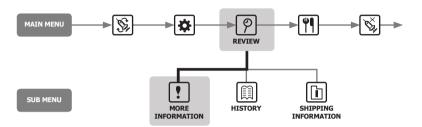
Notice

When adjusting important USER OPTION settings like Language, Glucose Unit, or Shutdown, a confirmation YES/NO is required.

5. More Information Screen

The More Information screen provides a quick review of:

- Active Insulin from a previous bolus.
- Extended bolus information (if active).
- The most recent bolus delivery information including how many minutes ago the bolus was delivery and the volume of the bolus.





- 1. From the main menu select **REVIEW** press .
- 2. Select MORE INFORMATION, press ®.

ACTIVE INSULIN

This is the Active Insulin sill working from previous boluses.

ACTIVE INSULINE: 4.2u
DAILY TOTAL: 25.0u
EXT. B:10.00u/00:30
PRE.BOLUS: Oh03m/3.5u

DAILY TOTAL

Displayed in units for the current day.

EXT.B (Extended bolus)

If an Extended Bolus is active, the Bolus amount and time remaining is displayed.

PRE. BOLUS (Previous bolus)

The most recent BOLUS is displayed as time since bolus and bolus amount.

4. Loading Insulin into the Pump

1. Preparation

Loading and refilling the Insulin Pump with insulin is a technical process which involves medication (insulin) and sterile components.

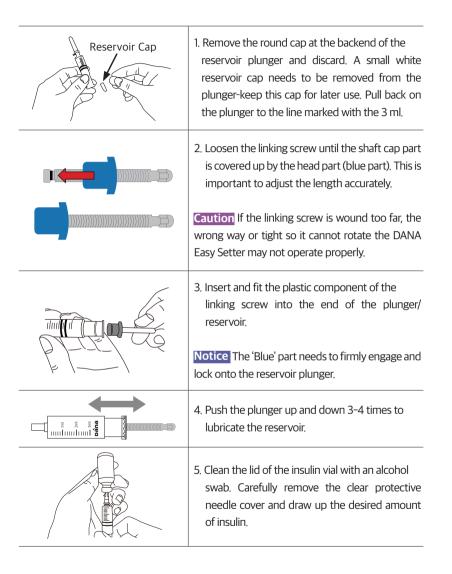
It is recommended that:

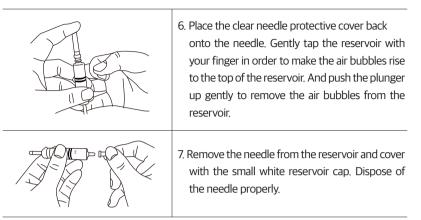
- Retrieve the insulin vial from the refrigerator and let it warm up to room temperature before starting.
- Place all necessary components on a clean dry surface with good lighting.
 - ✓ DANA Insulin Pump
 - √ Analog insulin (room temperature)
 - ✓ DANA Reservoir (3ml)
 - √ DANA Infusion Set
 - ✓ DANA Auto Setter
 - √ Linking screw
 - ✓ Alcohol swab (x 1)
- Wash and dry hands before opening sterile packets and starting the refill process.
- Follow advice and recommended guidance from the healthcare professional and insulin pump trainer.
- The room temperature in this manual is 15°C(59°F) ~ 30°C(86°F)
- The following insulin has been tested by Sooil Development Co., Ltd. and found to be safe for use in Diabecare DANA-i Insulin Pump: Novolog (do not use beyond "Timeframe"). Before using different insulin with this pump, check the insulin label to make sure the insulin can be used with the pump

Warning Disconnect the insulin pump from the infusion set and body before opening or starting any of the refill procedure. Insulin could be unintentionally delivered if the pump is opened while still connected.

Notice Do not reuse parts or all of an old infusion set or reservoir.

2. Filling the Reservoir with Insulin





Caution Using insulin directly from the fridge can cause micro air bubbles in the reservoir and tubing. Allow the insulin to reach room temperature before starting the refill process. When filling the reservoir, take care to remove all air bubbles.

Notice When refilling from a 10 ml Insulin vial, pull down the plunger until the volume of the reservoir matches the desired volume of insulin required. Insert the needle into the insulin vial and inject the air from the reservoir into the vial. Than draw down the desired volume of insulin.

Suggested fill amount formula:

(The usual daily requirement x 3 days) + Extra 40u.

For example, if a patient uses 60 units per day,60 x 3 = 180u and extra +40u (suggest filling with 220 units).

3. Adjust the length of linking screw with Auto Setter

The DANA Auto Setter is intended for adjusting the length of linking screw, measuring the amount of insulin in the reservoir and sending it to the pump with the wireless communication

DANA Auto Setter



Insert a battery into Auto Setter



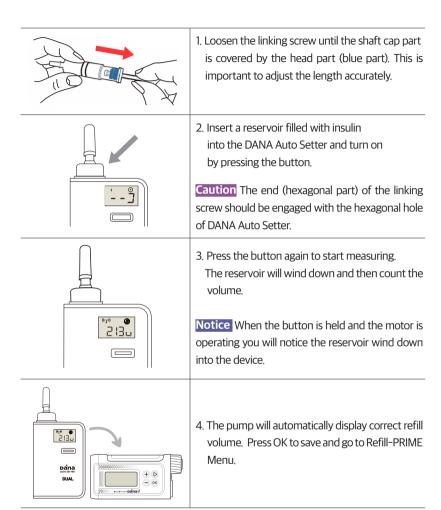
Open the battery compartment. Insert a battery positive side up. Close battery compartment.

Notice The DANA Auto Setter uses AAA size 1.5v battery.

Caution

- The Auto Setter must be upright on a firm flat surface during usage.
- Cover the reservoir cap (with small white plastic cap) when using Easy Setter to prevent insulin leaking out.

* Using DANA Auto Setter:



Notice

- Once removed read the reservoir volume from the indicators marked on the side of the reservoir (round the volume down to the nearest 20units).
- For more information on adjusting the connecting screws, see 4.2, 4.3

4. Inserting the Reservoir into the Insulin Pump



1. Insert the reservoir with linking screw into the Insulin Pump as shown.

TIP! When inserting the reservoir, rotate the reservoir 90 degrees until the notch on the side of the reservoir slide into place within the pump. Gently let the reservoir and linking screw fall into place.

2. Turn (counterclockwise) the Insulin Pump Reservoir Cap so that it is firmly locked in place.

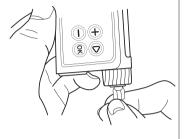
Caution

- DO NOT push or force the reservoir into the Insulin Pump as this could damage the Pump or force insulin from the reservoir.
- Only close Reservoir cap firmly by hand as the pump or cap could be damaged.

Notice

• If repeated attempts to insert the reservoir fail, use another new reservoir.

5. Connecting the Infusion Set to the Insulin Pump



Attach the Infusion Set Tube counter clockwise into the reservoir compartment until it is firmly in place.

TIP! The DANA insulin pump uses a proprietary LH(Left Hand) lure connection between the insulin pump and the Infusion Set tubing. Only DANA Infusion Sets will connect to the DANA insulin pump.

Notice Hold the Insulin Pump upside down while removing the white cap and connecting the tube to avoid insulin leaking into the Insulin Pump.

Warning DO NOT use an Infusion Set if the package is damaged, inadvertently opened or wet.

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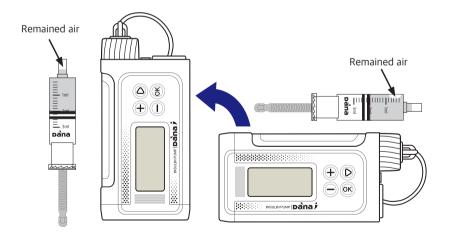
6. Prime the Infusion Set Tubing

Prime every new Infusion set tube to displace air from within the tubing. Visually confirm that all bubbles are primed from the Infusion Set tubing. Upon completion of refill process confirm the basal is active and correct.

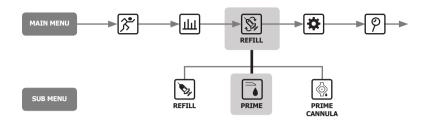
Warning It is important to properly prime the Tube and ensure all air is removed from the system. The pump may not properly deliver insulin without this.

Caution PRIME is a very important process to ensure that the pump will deliver insulin accurately. Delivery problems often result due to air within the tube and occlusion alarms may be because of poor or insufficient PRIME. Patients are required to have good level understanding of how to properly PRIME and why the PRIME process is important.

Notice Connect the infusion set tube then position the pump upright during priming for the perfect removal of any air in the reservoir and tube.



* PRIME procedure:





1, From the main menu select **REFILL** and press ®.



2. Select **PRIME** from the REFILL's sub menu and press .



3. From the **PRIME** menu press ® to start.

Warning It is very dangerous to start a Prime whilst the Infusion set is connected to the body.

INSERT RESERVOIR/ CONNECT INFUSION/ UPRIGHT PUMP DURING PRIME

4. Stand PUMP **upright** during **PRIME**, press **®**. Air moves upwards to top-standing pump upright helps displace all air bubbles.

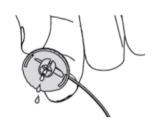


5. **START TUBE PRIME** confirmation menu, press sto start **PRIME**



The **PRIMING** display will show the volume of insulin delivered.

Notice During PRIME the pump may BEEP or VIBRATE after every unit of Insulin is primed.



7. When droplets of Insulin appear at the end of the **TUBE** press to **PAUSE**. Check the entire length of **TUBE** for any bubbles. Press to finish the PRIME.

Warning Ensure droplets of Insulin are clearly visible at the end of the tube / needle before stopping the prime

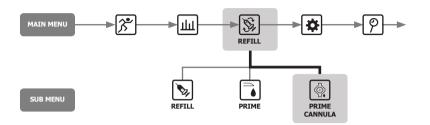
Notice Unless stopped already the PRIME will automatically stop after 25 units.

Notice If the prime amount is not enough (less than 7U), this alarm message will be displayed. Because, the minimum prime amount of the infusion set connected to the DANA pump is 7U. Refer to 10.3 Prime Volume of infusion sets and Chapter 7. Alarms and Error messages.

ALARM PRIME AMOUNT IS NOT ENOUGH

7. Prime the Cannula

When using an infusion set with a soft needle/cannula, the hollow area within the cannula requires PRIME CANNULA after completing tube prime.





 After inserting the cannula into the body (following the cannula instructions) connect the infusion set tube to the infusion set after priming all bubbles out from the tube.



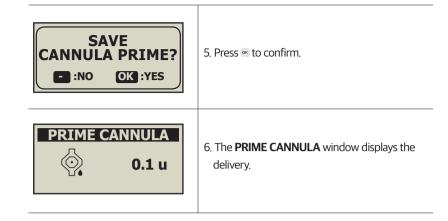
2. Select **REFILL** menu from the **MAIN MENU** and press ®.



 Select PRIME CANNULA from the REFILL menu press ⊗.



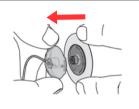
4. Check the **PRIME CANNULA VOLUME** is correct? press ® to confirm.



Notice Cannula fill volume is set in the USER OPTION menu. Cannula fill can be set between 0.1 - 0.9 units. Read cannula instructions to determine individual requirements for filling.

8. Reloading the pump

The previous instructions from (4.1 Loading the Pump) provide details for loading the insulin pump. After usage - prior to loading it is necessary remove the old reservoir by opening the reservoir compartment.

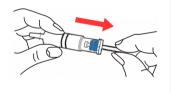


1. Disconnect the insulin pump tube at the infusion set.

Caution Ensure the infusion site is disconnected from the pump tubing - before opening the Insulin Pump. Failure could cause unintended insulin delivery!



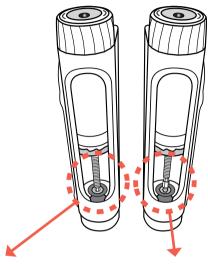
 Open the Insulin Pump reservoir compartment by turning the reservoir cap ¼ turn clockwise.
 Then remove the old reservoir by lifting out from the pump.



Remove the Insulin Pump linking screw by firmly pulling from the reservoir (holding the reservoir barrel tightly.

* Connection of Pump & Reservoir

The following is structure of pump and reservoir through linking screw.



Connection Success

If after a new refill, insulin pump primes the tubing properly and insulin droplets appear at the end of the tubing, It confirms the successful mechanical connection of linking screw and gear pit of motor assembly.

Connection Fail

If the linking screw is too short, it won't engage with the pump motor and insulin delivery fails.

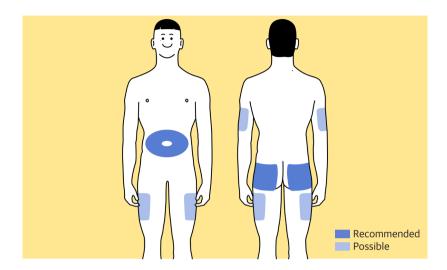
If insulin does not come out even if

If insulin does not come out even if you prime more than once, adjust the length of the linking screw again. Contact your healthcare professional or Pump Trainer if this occurs frequently.



Notice The insulin pump normally works if the length of adjusted reservoir including linking screw is 82±1 mm (3.2 inch).

* Recommending insertion site location



It is recommended to rotate the location of your Infusion Set sites to minimize skin damage and enable longer healing times. Consult your healthcare professional about the infusion site rotation. It is recommended that good rotation between 4 separate areas on the body - each area approximately the same size as the palm of the hand

Notice

- Avoid inserting Infusion Sets into any areas of recent insertion sites, scars, scar tissue or bruising.
- Infusion sites should not feel uncomfortable when touching near the insertion area after
 the cannula has been inserted. If discomfort is noticed it is likely the Infusion Set is not
 secured properly to the body.

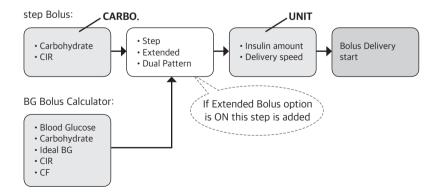
Notice Follow Infusion Set instructions for each specific infusion set used.

5. Delivering a Bolus

The DANA Insulin Pump can deliver a bolus of insulin using different user input parameters to calculate the bolus volume.

* Bolus calculation parameter

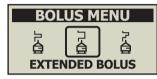
- Step Bolus (Quick): This standard bolus option can be calculated by either.
 - ✓ CARBO.: Inputting grams of carbohydrate to be consumed. The pump will estimate the dosage based on the CIR specific to the time of the day the bolus is being delivered.
 - ✓ UNIT: Specifying the dosage directly in units of insulin. By selection of dose in units of insulin below.
- BG Bolus Calculator (Smart Bolus): This smart bolus option uses the bolus calculator to calculate dosage based upon current BG level, grams of carbs to be consumed and uses the pre-set CIR, CF and Ideal BG levels set within the pump for the specific time of day. This Smart Bolus also factors in a bolus reduction for residual Active Insulin from previous boluses. Refer (5.3 Bolus Calculators) for detailed information.

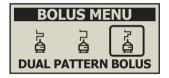


* Three type of Bolus Delivery

After selecting one of the options on previous page to assist with calculating the required dosage - the DANA Insulin Pump can deliver three types of bolus:







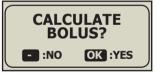
After a suggested bolus amount is shown press ® to select the bolus type:

- Step Bolus (Refer to chapter 5.1)
- Extended Bolus (Refer to chapter 6.8)
- Dual Pattern Bolus (Refer to chapter 6.9)

To enable the selection of bolus type, Extended Bolus must be set to ON (Refer to 5.3 Bolus Setting – Extended Bolus).

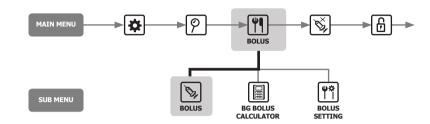
Notice

If Calculator setting is the "BOTH", this option you can choose whether to calculate your step bolus based on carbohydrates (CARBO.) or volume of insulin (UNIT) before bolus delivery.

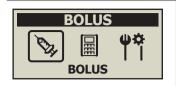


1. Bolus (Quick Bolus)

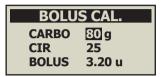
This bolus can be used to cover the carbohydrate in a meal or snack.



* How to start the (Quick) bolus delivery:

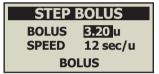


1, Select **BOLUS** from the BOLUS Sub menu press 🙉



2. Adjust the grams of carbohydrate with ⊕ or ⊜.
Move down the menu using ℩ to adjust the CIR.
Press ℮ for next step.

Notice if BOLUS CALCULATION is set to "UNIT", this step has been skipped.



3. Use ⊕ and ⊝ to increase/decrease the volume or speed of Bolus, Press ⊛.



4. Press ® to start.



5. The INSULIN INJECT screen displays during the delivery and you will hear the motor run as the bolus is being delivered.

Notice You will hear the Insulin Pump beep or vibrate for every 1.0 unit while a bolus is being delivered.



6. After the BOLUS has completed the delivery the DELIVERED BOLUS message displays the BOLUS amount. Press the

button to return to the initial screen.

* Stop delivery during bolus:



1. During the BOLUS delivery press the ⊕ button.

Confirm the STOP with ⊛.



2. After the BOLUS is stopped - the DELIVERED BOLUS message displays the amount delivered before being stopped.

Warning Following a BOLUS delivered for carbohydrate - if the carbohydrate is not eaten, there is a risk of hypoglycemia.

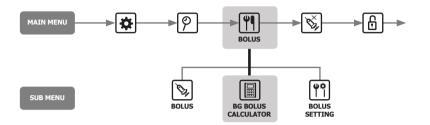
Notice

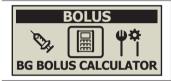
The Insulin Pump will by default give an audio reminder (Glucose Check Alarm) 2 hours after bolus begins. To stop the alert, push any button once. This 2-hour Alarm can be amended or removed by your healthcare professional or certified Insulin Pump Trainer.



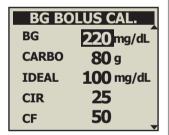
2. BG Bolus Calculator (Smart Bolus)

This type of BOLUS will calculate an estimate of insulin required for a correction bolus and/ or food bolus and adjusts the suggested dose to compensate for residual Active Insulin from previous Bolus delivery.





1. From MAIN MENU select BG BOLUS CALCULATOR with ® button.



2. Within the BOLUS CALULATOR menu, adjust the parameters displayed to match the settings for this BOLUS.

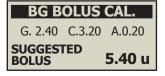
BG the current BG level.

CARBO the amount of carbohydrate in the meal.

IDEAL the default target BG

CIR the carbohydrate to insulin ratio

CF the correction factor



3. The BOLUS review displays the suggested Bolus dose.



4. Start the BOLUS with ® button.

Within the BOLUS review display the following values are displayed

G Is the Bolus dose to adjust **G**lucose

= (BG-IDEAL)/CF

C Is the Bolus dose to cover **C**arbohydrate in the meal

= CARBO/CIR

A Is the residual Active insulin calculated from previous boluses.

It is called "Active Insulin" or "Bolus on Board" or "Insulin on Board".

The suggested bolus is calculated by:

BOLUS = G + C - A

BOLUS = CORRECTION DOSE + MEAL DOSE - ACTIVE INSULIN

Example of Smart Bolus calculation.

Patient (A) has Ideal BG of 100 mg/dl, actual BG test prior to meal is 220 mg/dl. The meal/food contains 80 grams of carbohydrate. At the time of the calculation the set CIR is 1:25 and CF is 1:50. Patient (A) had 0.2u of active insulin at the time of the bolus.

G = (220-100)/50 = 2.40

C = 80/25 = 3.20

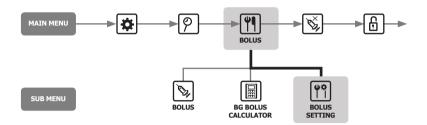
A = 0.20

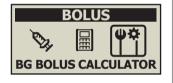
Suggested bolus = 2.40 + 3.20 - 0.20 = 5.40u

Notice If the actual BG is lower than the IDEAL BG the correction dose will be a reduction of Insulin required for the meal. Sometimes called a **Negative Correction**.

3. Bolus Setting

The Bolus Setting menu enables personalization of all Bolus features within the insulin pump.

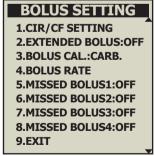




1, Select **BOLUS SETTING** from within the **BOLUS** MENU press ®.



2. The bolus setting menu is shown



3. Press ⊕ and ⊚ buttons so adjust the **BOLUS SETTING.** The ⊚ button move through the menu to next option.

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* Bolus Setting



1. CIR/CF SETTING

Select

CIR or CF

Press the $\ \ \, \ \ \,$ button to adjust the CF (correction factor) or press the $\ \ \, \ \,$ button to adjust the CIR (carb to insulin ratio).

From within the CIR or CF option, it is then necessary to adjust the ratio for every hour 00–01, 01–02. 02–03 etc for each hour to 23–24···

After successfully changing the ratio to the personalized requirements. Press $\[\odot \]$ to save the settings.

CIR = Carbohydrate to Insulin Ratio

CIR and CF are ratio's - so they each reflect how much 1u of insulin will cover.

CIR is a setting based on the amount of carbohydrate in grams per 1u of insulin requirement.

CF = Correction Factor

CF is a setting based on the expected change in Blood Glucose in mg/dl or mmol/L per 1u of insulin.

Notice Follow the advice and guidance from a Healthcare Professional, Nurse or Doctor when setting or changing CIR / CF ratio's.

* Bolus Setting

BOLUS SETTING

- 1.CIR/CF SETTING
 2.EXTENDED BOLUS:OFF
- 3.BOLUS CAL.:CARB.
- **4.BOLUS RATE**
- **5.MISSED BOLUS1:OFF**
- 6.MISSED BOLUS2:OFF
- 7.MISSED BOLUS3:OFF
- 8.MISSED BOLUS4:OFF 9.EXIT

3. BOLUS CALCULATOR

2 EXTENDED BOLUS

Setting changes CARB, UNIT or BOTH CARB = Bolus requests grams entered

Adjust between extended and dual bolus ON/FF.

UNIT = Bolus by adjusting units entered

BOTH = every bolus asks which option?

BOLUS SETTING



4. BOLUS RATE

Enables the default bolus size to be adjusted to a personal amount.

BOLUS SETTING

4.BOLUS RATE

5.MISSED BOLUS1:ON 6.MISSED BOLUS1:OFF

BOLUS SETTING

MISSED BOLUS: 08:00AM-10:30AM

5. MISSED BOLUS 1-4

This is a safety reminder alarm. When turned on a time period can be set for regular meal bolus's. Once set an alarm will remind of a missed bolus if no bolus is delivered during the selected time period. Change the MISSED BOLUS to ON then the TIME SETTING option opens.

Notice If you do not want to use the MISSED BOLUS feature, make sure it set to "OFF".

BOLUS SETTING

8.MISSED BOLUS4:OFF

9.EXIT

1.CIR/CF SETTING

6. EXIT

* Pre-set Bolus

The value of pre-set bolus is a default value which will first appear in the bolus menu. Set the size for breakfast, lunch and dinner bolus's as an option within Bolus setting menu.





LUNCH

Pre-set meal boluses are set following by these time periods.

- BREAKFAST = 01:00 09:59 (1:00 am 9:59 am)
- LUNCH = 10:00 14:59 (10:00 am 2:59 pm)
- DINNER = 15:00 00:59 (3:00 pm 12:59 am)

Notice BREAKFAST, LUNCH or DINNER will be displayed within the QUICK BOLUS menu when Pre-set Bolus is set to ON

Notice PRESET BOLUS is activated from within Doctor Mode, only a Healthcare Professional or Insulin Pump Trainer can enable this option.

6. Advanced features within Pump

1. Temporary Basal Rates

The temporary basal rate feature is useful to manage blood glucose levels during unexpected and unusual short-term activities (sport or exercise) or conditions of illness or stress. Using the temporary basal rate enables changes to be temporary and to automatically revert to usual rates upon completion.

* Starting a Temporary Basal Rate



1. Select TEMPORARY BASAL from within the MAIN MENU, press .



2. Press ⑤ to toggle between HR and %.
The ⊕ or ⊝ will adjust the selected rate.

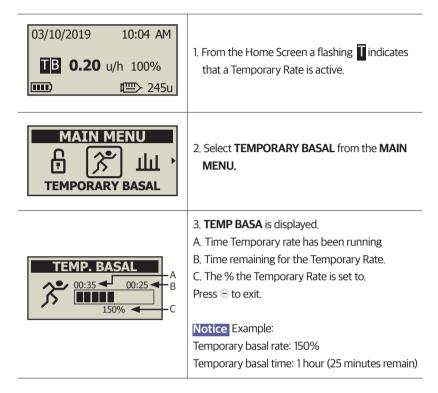


3. Confirm the Temporary Basal by selecting .

Notice

- Example: A temporary basal rate of 150% for 1 hour will increase the basal rate to one and a half of the regular basal rate for the next hour.
- The Temporary basal rate will not take effect if the HR is set to "O HR" or the rate is set to "100%".
- Temporary Basal Rates can be set in 10% increments between 0 200% for between 0 - 24 hour in 1hr increments.

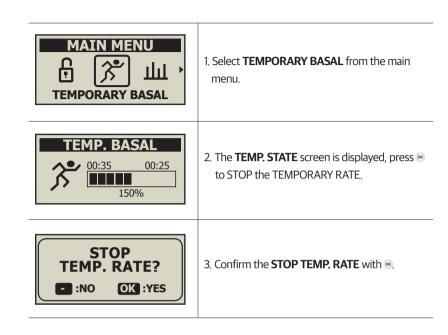
* Review Temporary Basal Rate Whilst in Operation



Notice

A second temporary rate cannot be started while one is active. The current active rate needs to finish or be stopped to start a new Temporary Basal rate.

* Stopping a Temporary Basal Rate



Caution Consult Healthcare Professional, Nurse or Doctor for advice about Temporary Basal rates prior to using them.

2. Suspend

To stop the Insulin Pump with the suspend function. Suspend stops all insulin delivery including basal and bolus. The Suspend must be off to resume basal delivery or to deliver a bolus.





1. Select **SUSPEND** from the **MAIN MENU**.



2. The display changes on the initial screen to alternate between SUSPEND and NO DELIVERY.



 To restart delivery select SUSPEND OFF from the main menu and confirm with . The pump will give an alarm and the basal active status on initial screen.

Notice

When suspended, the insulin pump alarm will ring every 4 minutes. This is to advise that no insulin is being delivered.

3. Button Lock

Button lock prevents accidental Insulin Pump keypad presses.

It is particularly useful for:

- Pediatric patients who are not able to program their own pump.
- Patients whilst sleeping.





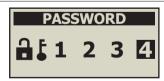
1. Select **BUTTON LOCK** from the **MAIN MENU**.



2. The BUTTON LOCK symbol is displayed on the Main Menu.



3. Press any button from the Initial Screen and a PASSWORD request appears.



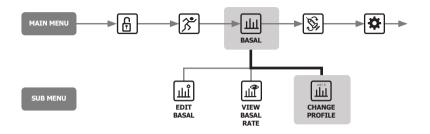
 The Correct PASSWORD must be entered correctly before any delivery menu can be accessed.

Notice

- The default PASSWORD is 1234
- The PASSWORD can be changed within the USER OPTION menu.

4. Basal Profile

The adjusted basal rates can be saved as 4 different profiles. These are useful for sport days, sick days or specific events that may affect your insulin sensitivity.

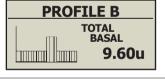




1. Select **BASAL PROFILE** from the **BASAL** sub menu.



2. Select the Profile that is to be selected



3. The PROFILE name is displayed confirm the change by pressing .

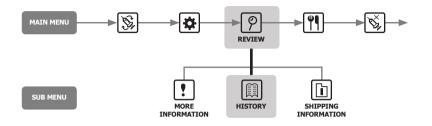


4. Confirm the change with .

Notice Default Basal profile #A is 0.2 u/h and profile (#B, #C, #D) are 0 u/h.

5. HISTORY: Displays all the Pump History

History and pump memory can be viewed either on the Insulin Pump



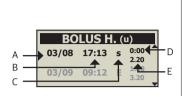


 Select REVIEW from the MAIN MENU then select HISTORY from the REVIEW sub menu.



2. The ⊕ and ⊝ Use scroll up/down.⊚ button to next menu.

* Review Menu



1. BOLUS HISTORY

Record of the most recent 300 BOLUSES

A. DATE (mm/dd) B. TIME (hh:mm)

C. BOLUS Type

S = Step

E = **E**xtended

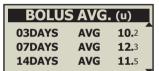
DS = Dual **S**tep

DE = Dual **E**xtended

D. Duration of Bolus (hh:mm)

E. Bolus amount (units)

* Review Menu



2. BOLUS AVERAGE

Daily total average bolus for 3, 7 14 and 28 days displayed in units of insulin.



3. DAILY TOTAL HISTORY

History of last 60 day's delivery totals Displayed as date with Basal / Basal +Bolus



4. REFILL HISTORY

History of when pump has been refilled, time and volume of Insulin loaded.



5, PRIME HISTORY

History of Pump Prime's, Date, Time, Volume

Notice In volume, "C" means "Prime Cannula value"

CARBO H. (u) 03/10 05:04PM 180 03/10 01:35PM 250

07:22AM

228

105

6. CARBOHYDRATE HISTORY

History of carbohydrate used for bolus delivery calculations, Grams of CHO

B. GLUCOSE (mg/dL)03/10 10:02AM 180 03/09 09:35PM 223

06:22PM

03/09

03/09

7. BLOOD GLUCOSE HISTORY

History of Blood Glucose using the BG Bolus calculator,

Date, Time, BG Result in mg/dL or mmol

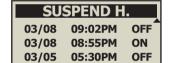
ALARM CODE

03/03 11:20AM LOW BATTERY 209U REMAING

8. ALARM CODE

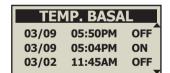
History of DANA alarms and warnings

- Date & Time
- Type of alarm
- Reservoir volume at time of alarm.



9. SUSPEND HISTORY

History of Suspend Date, Time of when Temporary rate is started (ON) or stopped (OFF).



10. TEMP. BASAL

History of Temporary Basal rates Date, Time of when Temporary rate is started (ON) or stopped (OFF).

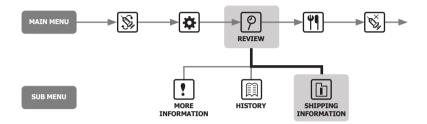


11. BASAL HISTORY

Review of hourly basal delivery. Scrolling back hour by hour of delivered basal up to 60 days history. Press \oplus and \bigcirc to move the time.

6. SHIPPING INFORMATION

This displays the country that the pump was originally shipped to after manufacture. Also displayed is the date of manufacture, pump serial number and the software version installed





From **MAIN MENU** select **REVIEW** screen then open **SHIPPING INFORMATION** from the sub menu.

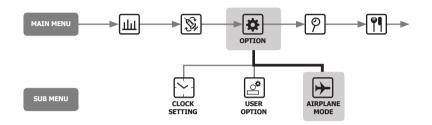
- 1. S/N: AAA00000AA
- 2. COUNTRY: KOR
- 3. DATE: 01/MAR 2019
- 4. VERSION: FPN X.X

Display includes:

- Pump serial number
- Country pump was originally distributed from
- · Date of manufacture
- Pump software version number

7. Airplane mode

Diabecare DANA-i is designed for remote control in conjunction with smartphone app. However, since it always transmits Bluetooth signal, it is necessary to switch to airplane mode when it is necessary to turn off the electronic signals such as when boarding on an airplane.





 Select OPTION from the MAIN MENU then select AIRPLANE MODE from the OPTION's sub menu.



2. The airplane symbol is displayed on the initial screen.



3. To turn off the airplane mode, select **AIRPLAME MODE OFF** from the OPTION's sub Menu.

Notice

- when not using the smartphone app, airplane mode helps save the battery.
- Refer to the app instruction for use for how to connect the smartphone app and the pump.

8. Extended Bolus

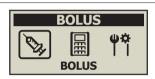
Extended or Dual bolus can be used for:

- Meals with slow absorption (high fat) i.e. pizza or lasagne
- Insulin Pump users who have other conditions such as gastroparesis which can delay/slow the absorption of carbohydrate. Refer to a Healthcare Professional about this condition and treatment.
- Insulin delivery where a meal has been eaten over a long period of time or with extended snacking.

Notice to enable EXTENDED BOLUS refer 5.3 Bolus Options.

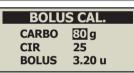
* Start Extended Bolus (Quick Bolus)

Bolus (Quick Bolus) using grams of carbohydrate Extended.



From MAIN MENU select BOLUS.

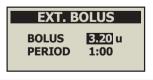
From BOLUS sub menu select Bolus icon.



2. Enter the grams of carbohydrate and confirm the CIR setting is correct. Press .



3. Displays the three different bolus types. Select **EXTENDED BOLUS** press **⊗**.



4. The **EXT. BOLUS** menu displays the Bolus amount in units of insulin and enables the time to be adjusted. The time can be adjusted in 30 minute increments up to 8 hours.

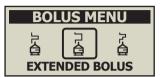


5. Confirm BOLUS start with .

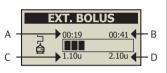
* Start Extended Bolus (Quick Bolus)



1. Extended state shown on the initial screen.



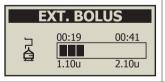
 From MAIN MENU select BOLUS.
 From BOLUS sub menu select Bolus icon. The three bolus types are displayed, select Extended press



- The EXT. BOLUS displays the current active Extended Bolus.
- A. Time since the Bolus started(hh:mm)
- B. Time remaining before Bolus is complete
- C. Bolus amount delivered already
- D. Bolus amount remaining

Press ⊜ to exit,

* Stop an Extended Bolus



1. From **EXT BOLUS** status screen press .

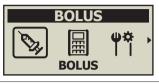


2. Confirm the **BOLUS STOP** with ®.

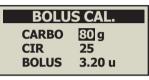
Caution Within the Pump History Extended Bolus history is recorded at the date and time the Bolus is finished.

9. Dual Pattern Bolus

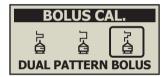
Dual Pattern bolus delivers a combination of a Step Bolus followed by an Extended Bolus. A Dual Pattern bolus is useful for meals with a combination of fast and slow absorbed carbohydrate.



From MAIN MENU select BOLUS
 From BOLUS sub menu select Bolus icon.



2. Enter the grams of carbohydrate and confirm the CIR setting is correct. Press .



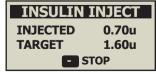
3. The **BOLUS MENU** displays the three different bolus types. Select DUAL BOLUS press ...



4. The **DUAL PATTERN** menu displays the Bolus amount in units of insulin. Half is STEP and half is EXTEND. Each Bolus amount can be adjusted. The time can be adjusted in 30 minute increments up to 8 hours.



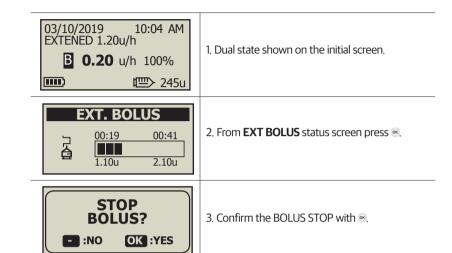
5. Confirm **BOLUS START** with ...



6. The step bolus is injected immediately, and the remaining amount is deliver by Ext, Bolus.

* Stopping a Dual Pattern Bolus

To stop the extended part of a Dual Bolus from the EXT Bolus status menu.



Notice

If Step Bolus is selected while an Extended Bolus or Dual Pattern Bolus is being delivered an "EXTENDED BOLUS" message is displayed.



7. Alarms and Error Messages

This chapter describes insulin pump alarms and error messages and how to solve them. **Diabecare DANA-i** alarms and error messages are as follows.

Туре	Alarm and Error Message	
WARNING (High Priority)	LOW BATTERY LOW RESERVOIR EMPTY RESERVOIR SHUTDOWN OCCLUSION	
ERROR (Medium Priority)	CHECK ERROR SYSTEM ERROR	
ALARM (Low Priority)	SUSPEND MISSED BOLUS PRIME AMOUNT IS NOT ENOUGH PRIME INCOMPLETE DELIVERY LESS THAN BASAL SET RATE CHECK GLUCOSE CONFIRM PAIRING NO DELIVERY	

Notice

- WARNING is a critical alarm that can affect safety. Resolve an issue as soon as possible.
 In this case, the alarms will SOUND even though VIBRATION is selected.
- ERROR makes you know the problem of the insulin pump. An ERROR is less serious
 than an WARNING. In this case, the alarms will SOUND even though VIBRATION is
 selected.
- ALARM just informs you about the status of the insulin pump.

* WARNING Message

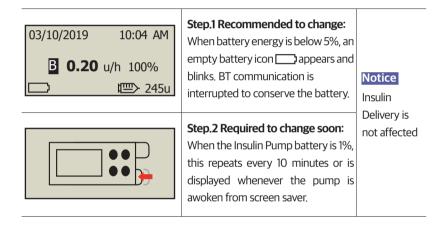
LOW BATTERY

The low battery screen will appear when the battery level is not sufficient to operate the pump and deliver insulin. A continuous alarm will be activated with both sound and vibration.

How to solve:

Remove the battery from the Insulin Pump and replace with a new battery.

Low Battery warning step



Notice

- If spare battery is not available, use the battery from the Easy Setter. Always ensure you keep spare batteries near.
- Refer to 8.5 Battery for DANA Insulin Pump.

* WARNING Message

LOW RESERVOIR

When the reservoir volume is below the 'Low Reservoir' warning configured in the user options, this screen will be shown with an alarm



How to solve:

The pump will revert to the Initial Display and the reservoir icon will blink/flash. After checking the actual remaining insulin volume of the reservoir in your pump, replace the reservoir and refill the pump if necessary.

Notice The pump has a Low Reservoir alarm. Depending upon dosage - the user can set this alarm at 10, 20, 30 40 or 50u threshold (See section 3.4 'User options' for changing the threshold). If set at 10 or 20u the pump will alarm every half hour from when the threshold is reached. If set at 30, 40 or 50u the pump will alarm every 1 hour after the threshold is reached.

FMPTY RESERVOIR

When the reservoir volume is zero (Ou), all delivery is stopped and this screen will be shown with a sound alarm.



How to solve:

Silence the alarm by pressing any button. Immediately replace the reservoir and refill the pump

Warning The pump displaying "NO DELIVERY/EMPTY RESERVOIR" is unable to not only deliver basal and bolus but access to any delivery function.

Notice This alert/alarm message will repeat every 5 minutes until a complete refill is completed, Refer to chapter 4. Loading Insulin into the Pump.

SHUTDOWN

The Pump will automatically give an alarm sound if no buttons are pressed after the pre-set shutdown period is exceeded. If no acknowledgment of the alarm is received (button press) following the audible alarm – the pump will suspend all insulin delivery.



How to solve:

Silence by acknowledging the alert and pressing any of the buttons.

OCCLUSION

This warning occurs if the Insulin Pump has an occlusion or a problem which disturbs insulin delivery.



How to solve:

An occlusion alarm will occur when the Insulin Pump detects a blockage and cannot deliver insulin. Check for blocked or folded areas and replace the reservoir or infusion set if necessary.

Caution Even after resolution of the problem – check your blood glucose frequently to ensure the pump is delivering insulin properly.

Self-check Procedures for Occlusion Alarm Occurrence

Implement self-check procedures in the case of the following:

- An occlusion alarm occurs during replacement of the infusion set or reservoir.
- The occlusion alarm occurs frequently.

Step.1 Safety first - check BG levels (could be Hyperglycemia)

Step.2 Visually check if there is any area of the tubing that is folded or blocked.

Step.3 To determine of the occlusion is in the pump or body/consumable:

- a. Disconnect infusion set from the body.
- b. Deliver a BOLUS of 5 6 units.
- c. If there is no occlusion alarm or blockage, it will be possible to visually notice/ see a puddle of insulin at the end of the Infusion Set tubing. This has now determined that the occlusion was in the cannula or body. Replace cannula or insertion site to resolve.

* ERROR Message

CHECK ERROR

This alarm occurs if the Insulin Pump suspects an internal signal defect.



SYSTEM ERROR

This alarm occurs when the Insulin Pump detects any unusual movement of the controller,



How to solve:

If/when either of these alarms, removal of the battery will silence the alert. Reinsert the battery after 10 seconds and the pump will perform a full self-check procedure. DANA Insulin pump is monitoring all operation for safety. Any unusual noise may cause relevant alarms to prevent any further problems.

However, if it does not occur again after resetting the pump, the pump has no problem.

Warning When the errors occur, all the delivery is stopped. Check the insulin delivery following restart when these errors occur.

Caution If WARNING persists, contact technical support from your local Insulin Pump distributor.

* ALARM Message

SUSPEND

Select any menu related to infusion (insulin delivery) whilst the Insulin Pump is in Suspend Mode, you are alerted with this message.



Refer to 6.2 SUSPEND.

How to solve:

Turn the Suspend Mode off prior to continuing in any of the infusion (insulin delivery) menu's.

* ALARM Message

MISSED BOLUS

If a bolus missed a bolus during the time period set, the Insulin Pump will give you an alarm together with an alarm message.



Refer to 5.3 Bolus Setting-MISSED BOLUS

How to solve:

Silence the alarm by pressing any button.

Follow the prompt by determining if a food bolus was missed and administer if necessary.

* ALARM Message

PRIME AMOUNT IS NOT ENOUGH

This alarm/alert message will be displayed if the volume delivered for tubing prime is less than 7 units.



How to solve:

Properly priming the infusion set tube is necessary to ensure all air is displaced and insulin is ready for infusion. Even the shortest infusion set tube will require more than 7 units to properly prime – so for safety the Insulin Pump has a minimum required Prime volume of 7 units. Refer to 10.3 Prime Volume of infusion sets for suggested minimum prime amount for each infusion set.

PRIME INCOMPLETE

If the prime process is not correctly completed following a refill the "PRIME INCOMPLETE" alarm occurs every 5 minutes and message will be displayed with a beep sound.



How to solve:

A melody will play for 30 seconds. You can silence by depressing any button.

DELIVERY LESS THAN BASAL SET RATE

If the basal is skipped and delivered less than 80% of the basal setting, this alarm will be generated.

ALARM DELIVERY LESS THAN BASAL SET RATE

How to solve:

Silence the alarm by pressing any button. If you operate the pump at basal delivery interval, the basal may occasionally skip. For a stable basal delivery, avoid long-time pump button operation.

** Basal Insulin delivery intervals very based on the size of the set basal rates.

Size of BASAL Rate (u/hr)	BASAL delivery interval	
≥ 0.1 U/h (Basal)	Every 4 minutes (1/15) of the hourly rate is delivered.	
Extended bolus	15 deliveries per hour.	
≤ 0.09 U/h (Basal)	Basal delivery will occur once at 56min the hour. (hourly)	

Warning The individual small basal delivery increments maybe interrupted during Bluetooth pairing or during changes being made to configuration or pump settings. These increments of basal delivery in very low basal delivery rates such as ≤ 0.09 U/h patients need to be monitored carefully to avoid unexpected hyperglycemia which it could lead to ketoacidosis

* ALARM Message

CHECK GLUCOSE

This alarm is to remind you to check blood glucose level after a bolus.



How to solve:

Silence the alarm by pressing any button. In this case, insulin is not delivered until prime is properly completed. Refer to 4.7 Prime the infusion set tubing.

Notice The default is 2 hours and can be adjusted by a health care professional in the Dr. Mode.

CONFIRM PAIRING

Displayed when the pump receives a pairing signal.



How to solve:

To cancel / prevent pairing, press (-) NO Refer to instruction for use of application.

NO DELIVERY

The pump cannot deliver insulin for one or more of different reasons. This message is shown on initial display and may blink/flash with additional information



How to solve:

A detail message will blink alternately. Refer to following reason of NO DELIVERY. Refer to instruction for use of application.

※ Reason of NO DELIVERY

03/10/2019 10:04 Al	If prime is not completed or was less than 7u (minimum) to fill tube. Refer to 4.7 Prime the infusion set tubing.
Ⅲ	5u
03/10/2019 10:04 Al	If basal setting is 0.0 u/h, NO DELIVERY is displayed
0.00 u/h 100%	during that time.
Ⅲ	Refer to 3.2 Setting the Basal rate.
03/10/2019 10:04 AI	М
SUSPEND	Pump has been suspended. Refer to 6.2 suspend
Ⅲ □ □ 0u	
03/10/2019 10:04 Al	If there is no insulin in the reservoir, EMPTY
EMPTY RESER.	RESERVOIR is displayed and insulin is not injected. Refer to 4. Loading Insulin into the Pump.
Ⅲ □ □ 0u	

8. Troubleshooting

1. Hypoglycemia (low blood sugar)

* What is hypoglycemia (low blood sugar)?

Hypoglycemia occurs when the blood sugar level is low. Anyone using insulin should be familiar with the symptoms and treatment of hypoglycemia.

The symptoms are:

- Headache and dizziness
- Sweating
- Shaking
- Hunger
- Tingling / numbness
- · Nausea or vomiting
- Fast heart rate
- Confusion

* Reasons for Hypoglycemia

- Not enough food
- · Too much insulin
- · More exercise than usual
- Drinking alcoholic beverages

* What to do in case of hypoglycemia

- 1. Check your blood sugar level.
- 2. If the blood sugar level is low, treat with fast acting carbohydrates in accordance with the instructions of your diabetes professional. Recheck BG level as advised.
- 3. If hypoglycemia occurs prior to a meal, consider a bolus delaying the bolus until during or after the meal, rather than before.
- 4. In cases of severe hypoglycemia, it is recommended to suspend delivery by disconnecting the Infusion Set.

* Hypoglycemia Troubleshooting

POSSIBLE CAUSE	SUGGESTED RESPONSE	
Increased physical activity	Consult with a healthcare professional to make adjustments for increased physical activity. Use or modify temporary basal rates or decrease meal boluses prior to activity.	
Eating less	Consult with a healthcare professional to adjust basal rates or meal boluses to more accurately reflect current intake.	
Alcohol consumption	Caution required when consuming alcohol, as the liver metabolizes alcohol causing vulnerability you vulnerable to hypoglycemia.	
User setting error	Check and review bolus history and basal rates. Check with a healthcare professional to make sure Bolus, Time, CIR, CF Target BG and Basal are correctly programmed.	

Notice If hypoglycemia occurs frequently, or is difficult to resolve, contact a health care professional.

2. Hypoglycemia (low blood sugar)

* What is hyperglycemia (high blood sugar)?

Hyperglycemia (high blood sugar) can occur due to any interruption in the delivery of insulin. It is important to know that if there is no insulin delivery you may experience an increase in blood sugar which, if undetected or untreated, may cause DKA (diabetic ketoacidosis). The symptoms are:

- Nausea
- Vomiting
- Increased drowsiness
- · Difficulty breathing
- Dehydration
- Fruity odor to the breath
- Dry cracked lips, mouth or tongue

* Reasons for Hyperglycemia

- Too much food
- Not enough insulin
- · Loss of insulin strength
- Disruption of insulin delivery from the pump

* What to do in case of High Blood Sugar

- 1. Check blood sugar level.
- 2. Check Pump even if it does appear to be in good order. If the insulin pump and linking screw are not connected, even though pump is seen normally to be working, insulin is not delivered. Refer to chapter 4. Loading Insulin into the Pump.
- 3. If blood sugar remains high, treat as prescribed by your healthcare professional and /or contact your healthcare professional immediately.

* Troubleshooting for Hyperglycemia

POSSIBLE CAUSE	SUGGESTED RESPONSE	
Empty reservoir	Visually check display screen for remaining insulin and al visually check reservoir in Pump. Replace reservoir required.	
Insulin leakage at infusion site, disconnection at the site or connection to Pump	Examine infusion site to make sure that there is no leakage Examine the connection of the Infusion Set to the Pump and the Infusion Set connector.	
	Notice Insulin has a strong pungent smell - if you smell insulin anywhere it may be leaking.	
Pinched or obstructed Infusion Set	Change the Infusion Set.	
User setting error	Check and review bolus history and basal rates. Check with a healthcare professional to make sure Bolus, Time, CIR, CF Target BG and Basal are correctly programmed.	

3. Occlusion Alarm

The causes of occlusion alarms are very variety. The tube may be blocked by uncertain materials or may be caused by other external factors. The various causes of occlusion are described as follows.

* Real Occlusion (Usually within the Cannula or tube)

OCCLUSION CAUSES	WHAT TO DO	
Use of the reservoir or Infusion Set for		
longer than intended usage.	Replace Infusion Set and reservoir,	
Infusion Sets or reservoir is re-used.	complete refill and prime.	
Skin cell tissue or tiny substance in flow.		
Bent, folded or damaged Cannula.	Insert new Infusion Set Cannula, in new location.	
Bent, folded or distorted tubing.	Straighten to allow easy flow.	
Denatured insulin (crystallized, changed color) This is more common in hot climates! Sometimes it is best to only partly fill reservoir and replace more frequently to prevent Insulin deterioration.	! Change insulin from new vial. Refill pump replacing the tubing, reservoir and Infusion Set Cannula.	

* Occlusion caused by external factor

OCCLUSION CAUSES	WHAT TO DO
Linking screw has previously been affected by insulin leakage. (seldom)	Wash linking screw in warm water with mild detergent, thoroughly dry then reinstall the linking screw into the pump.
The end of insulin delivery. (The correct linking screw placement)	Adjust and fully loosen the linking screw to the end, then complete refill of pump with a new reservoir. Refer section 4.
Cold insulin used during refill. (Air-bubbles in reservoir or tubing could occur when Insulin warms to room temperature)	Let the insulin adjust to room temperature for 30 minutes, then complete refill and prime.
Lumpy fat or stiff muscle. Improper sites to inject. Needle-subtracted area, chapped skin, wrinkled area or frequently inserting at the same site location causing lipohypertrophy.	Frequently change site locations Massage to smooth skin.
Not good angle to insert Cannula according to the sort/length of Cannula	Consult medical professional or Insulin Pump Trainer for guidance for the best Infusion Set type and size and how to properly insert the Cannula.

Warning If Occlusion Warning persists, contact technical support from local Insulin Pump distributor.

Caution Check blood glucose frequently following an occlusion.

4. Troubleshooting the Insulin Pump

PROBLEM	CORRECTIVE ACTION
	An abnormal LCD can occur when the battery charge is low. Check the remaining battery charge after you administer a bolus dose.
Abnormal LCD	The life span of the battery is between 3-6 weeks, but varies among users. Some batteries are known to still show a full charge after two months.
	To avoid any battery mishaps we recommend to change the battery every two months, when the pump alerts to low battery reserve or whenever there is a display problem with your screen.
Insulin Pump does not function following CT or MRI scan	It is possible that the pump is damaged by CT or MRI scan. contact technical support

Warning In case of device malfunction, stop using the Insulin Pump immediately and contact the local distributor for technical support.

Taking care of the System

5. Cleaning the System

Use a soft cloth or tissue to wipe the exterior of the Insulin Pump. If necessary, a small amount of mild alcohol on a soft cloth or tissue may be used. Organic solvents such as benzene, acetone and household industrial cleaners can cause irreparable damage to the Insulin Pump.

- 1. The outside of the Insulin Pump and Accessory should be cleaned monthly.
- 2. When cleansing, use a cloth moistened with water or a neutral pH detergent and afterwards wipe, with a dry cloth.
- 3. **DO NOT USE** thinner, alcohol, benzene or similar solvents.



Notice The battery cap has a O-ring to seal the battery compartment. If it is damaged or missing replace the battery cap.

6. Disposing of Pump and System.

Consult a healthcare provider for instructions for disposal of devices containing electronic waste such as you pump and for instructions for disposal of potentially bio hazardous materials such as used cartridges, needles, syringes, and infusion sets.

7. Storing the System

For safe transport and storage of the **Diabecare DANA-i** Insulin Pump system avoid the following conditions:

- Storage Temperatures below -20°C (-4°F) or above 50°C (122°F).
- Operation Temperatures below 1°C (34°F) or above 40°C (104°F).
- Humidity above 95%.
- Exposure to excessive dust or a salty environment.
- Exposure to explosive gas.
- Exposure to direct sunlight.
- Environments where an intense electromagnetic field is generated.
- Atmospheric pressure below 500 hPa or above 1060 hPa.

500 hPa = 500 mbar, 50 kPa, 375 mmHg, 7.3 psi

1060 hPa = 1060 mbar, 106 kPa, 795 mmHg, 15,4 psi

It's important to

- Not expose the Insulin Pump to direct sunlight or heat for an extended period of time,
- · Not drop the Insulin Pump.
- Not try to fix, open or alter the Insulin Pump in any way.
- · Avoid acid or alkali environment.
- Keep the Insulin Pump away from strong electromagnetic fields such as cell phone and microwave ovens.

Caution The Insulin Pump must not be used in the presence of intense electromagnetic fields, such as those generated by certain electrically powered medical devices. The Pump should be removed prior to the user having a CT Scan, MRI or X-ray. The pump usage can generate and radiate radio frequency energy which may cause harmful interference to other devices nearby.

9. Specification

1. Insulin Pump

SPEC	INSULIN PUMP	
Size	3.8× 1.8× 0.8 inch (97 × 47 × 22mm) **including reservoir cap	
Net Weight	75g (without battery), 86g (including battery)	
Insulin Reservoir	3mL(300 Units) insulin compatible reservoir	
Meal Bolus Setting	0 - 80u	
Basal Rate Setting	0, 0.04 ~ 16.0 u/h	
Basal Profile	4 Types of 24 hours period	
Minimum Basal Rate	0.04 u/h	
Minimum Increment	0.01 unit	
Motor	Swiss Micro DC motor (3V, 5.75mA)	
Bolus Duration for 1 Unit	12 / 30 / 60 seconds (optional settings)	
Power Supply	1.5V AAA size Battery	
Energy Saver	Sleep Mode, Airplane Mode	
Alarm	Alarm type: visual, audible and vibratory	
	Audio Frequency: 300Hz to 3000Hz	
Wireless	Bluetooth Specifications V4.X BLE	
	Temperature: 1 - 40°C / 34 - 104°F	
Operation Condition	Relative Humidity: 10-90 %	
	Atmospheric Pressure: 700 - 1060 hPa	
Transport and storage	Temperature: -20 - 50°C / -4 - 122°F	
Condition	Relative Humidity: 0 - 95 %	
	Atmospheric Pressure: 500 - 1060 hPa	

2. Infusion Sets





Soft-Release-0

DANA Inset II

	Soft-Release-0	DANA Inset II	Soft-Release -O Micro
Needle gauge	26G	26G	31G
Needle type	Teflon	Teflon	Fine steel
Insertion angle	90°	90°	90°
Disconnect	Yes	Yes	Yes

Notice Each type of Infusion Set is unique. Healthcare Professional and an Insulin Pump Trainer will help provide assistance with the most appropriate Infusion Set to use.

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3. Prime Volume of Infusion Sets

New unopened Infusion Sets are sterile and the tubing is filled with air/empty. Once connected to the Insulin Pump it is necessary to prime the tubing (fill it with insulin and remove the air) before the tube is connected to the Cannula or Patient.

The following shows the estimated volume of insulin required to fill tubing for each of the Infusion Sets below:

Notice Volumes are approximate

Infusion Set	Tube length	Minimum required Insulin amount
Soft-Release-O	60cm 14 Units	
	80cm	19 Units
DANA Inset II	60cm	15 Units
DAINA IIISEE II	110cm	22 Units

* Cannula prime

Infusion Set	Tube length	Minimum required Insulin amount
Soft-Release-O	6 mm needle with base	0.3 Units
	9 mm needle with base	0.4 Units
Soft-Release-O	5.5mm needle with base	0.2 Units
Micro	8.5mm needle with base	0.3 Units
DANA Inset II	6mm needle with base	0.5 Units
	9mm needle with base	0.6 Units

Notice Because the air is lighter than insulin, the insulin pump should be kept in an upright position during the priming process. This can help displace any air in the tubing.

4. Delivery accuracy

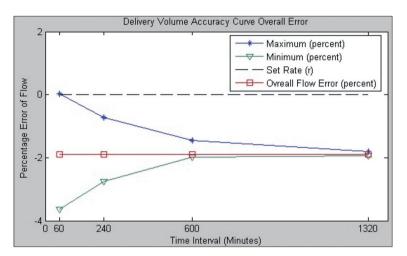
Delivery Intervals: 4 minutes when a basal setting is not lower than 0.1 $\mathrm{u/h}$

60 minutes when basal delivery setting is 0.04 - 0.09u/h

Delivery Accuracy: ±4%

Trumpet Curve for Delivery Accuracy (-1.94 %) at the basal setting of 8u/h

(the intermediate rate)



5. Classification and Compliance with Standards

- The Diabecare DANA-i is classified as an internal powered equipment BF type under the standard of IEC 60601-1
- (Medical Electrical Equipment, General Requirements for Safety).
- It is not suitable for use in the presence of a flammable anesthetic mixture by the standard of IEC 60601-1.
- The System will continuously operate according to the user defined settings.

6. Essential Performance

The Insulin infusion pump maintains insulin delivery accuracy in the specified environmental conditions.

7. Wireless communication

* DATA Security

The Diabecare DANA-i system ensure data security via proprietary means and ensure data integrity using error checking processes, such as cyclic redundancy checks.

* FCC Notice

The Diabecare DANA-i Insulin Pump FCC ID: VF9DANAI4

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.

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.

Caution

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

* Declaration of EMC compatibility

The Diabecare DANA-i insulin pump is intended for use in the electromagnetic environment and comply with the United States Federal Communications Commission and international standards for electromagnetic compatibility.

Electromagnetic emissions			
Emissions test	Compliance	Electromagnetic environment	
RF emissions EN 55011	Group 1	The Diabecare DANA-i insulin pump uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.	
RF emissions EN 55011	Class B	The Diabecare DANA-i insulin pump is	
Harmonic emissions IEC 61000-3-2	Not applicable	suitable for use in all establishments, including domestic establishments and	
Voltage fluctuations/ Flicker emissions IEC 61000-3-3	Not applicable	those directly connected to the public low- voltage power supply network that supplies buildings used for domestic purpose.	

NOTE The preceding statement is required by IEC 60601-1-2 for Group 1, Class B devices. However, since the Diabecare DANA-i insulin pump is battery powered, its emissions will not be affected by the establishment power supply.

Electron	nagnetic immunity -	for all ME equ	ipment and ME systems
Emissions test	IEC 60601 test level	Compliance	Electromagnetic environment
Electrostatic discharge(ESD) IEC 61000-4-2	±8kV contact ±15kV air	±8kV contact ±15kV air	The Diabecare DANA-i should not be affected by electrostatic discharge that might occur under normal conditions of use.
Electric fast transient/burst IEC 61000-4-4	±2kV for power supply lines ±1kV for input/ output lines	Not applicable	Not applicable
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	Not applicable	Not applicable
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% UT (>95% dip in UT) For 0, 5 cycles 40% UT (60% dip in UT) For 5 cycles 70% UT (30% dip in UT) For 25 cycles <5% UT (>95% dip in UT) for 5 seconds	Not applicable	Not applicable
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE UT is the a.c. mains voltage prior to application of the test level.

Emissions test	IEC 60601 test level	Compliance	Electromagnetic environment
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	Not applicable	Portable and mobile RF communications equipment should be used no closer to any part of the Diabecare DANA-i insulin pump, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter
			Recommended separation distance
			$d = \left[\frac{3,5}{3}\right] \sqrt{P}$

		1	
			$d = \left[\frac{3.5}{3}\right] \sqrt{P} \text{ 80 MHz to 800 MHz}$ $d = \left[\frac{7}{3}\right] \sqrt{P} \text{ 800 MHz to 2.5 GHz}$
			where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).
Radiated RF	10 V/m	10 V/m	
IEC 61000-4-3	80 MHz to 2.7 GHz		Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey a, should be less than the compliance level in each frequency range b.
			Interference may occur in the vicinity of equipment marked with the following symbol: ((••))

NOTE.1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE.2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption, and reflection from structures, objects and people.

a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Diabecare DANA-i insulin pump is used exceeds the applicable RF compliance level above, the Diabecare DANA-i insulin pump should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Diabecare DANA-i insulin pump.

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distance between portable and mobile RF communications equipment and the Diabecare DANA-i

The Diabecare DANA-i insulin pump is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Diabecare DANA-i insulin pump can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Diabecare DANA-i insulin pump as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter [W]	Separation distance according to frequency of transmitter [m]		
	80 MHz to 800 MHz $d = \left[\frac{3.5}{3}\right] \sqrt{P}$	800 MHz to 2.5 GHz $d = \left[\frac{7}{3}\right] \sqrt{P}$	
0.01	0.117	0.233	
0.1	0.369	0.738	
1	1,167	2.333	
10	3.689	7.379	
100	11.667	23,333	

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE.1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE.2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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8. Explanation of Universal Symbols

On the packaging and on the type plate of **Diabecare DANA-i** System you may encounter the following symbols shown here with their meanings:

	Follow instructions for use
	Caution. Refer to safety-related notes in the manual
	accompanying this instrument
	Date of manufacture
***	Manufacturer
REF	Catalogue or model number
LOT	LOT Number (Batch Code)
	Expiration Date (Use by date)
0120	CE Marking
$R_{\!$	Requires prescription in the United States.
2	Do not reuse
SN	Serial Number
*	Type BF applied part (protection from electrical shock)
EC REP	European Authorized Representative

STERILE EO	Sterilized with ethylene oxide
•	Adhesive plaster
(i), (i), (i),	Tubing length (1100mm, 700mm, 550mm / 43inch, 27inch, 22inch)
IP68	International Protection Code. Dustproof degree: 2 / Waterproof degree:8
	Direct current
X	Disposal (WEEE marking)
X	Non-Pyrogenicity
_	Keep dry
	Storage temperature range
®	Do not use if package is damaged
<u>%</u>	Storage humidity range
∳• ◆	Atmospheric pressure limitation

10. Index

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11. Warranty

SOOIL Development Company Limited warrants that the Diabecare DANA-i System is free from defects in material and workmanship under normal use and conditions and will warrant this for a period of four (4) years from the date of purchase by the original purchaser. This limited warranty extends only to the original purchaser.

Should the System fail to operate properly due to defect in material or workmanship during the warranty period, it may be returned to SOOIL Development Co. Ltd., by shipment to its designated Distributor. The System will be repaired or replaced at SOOIL's option without charge to the purchaser. Freight and other charges, where applicable, incurred in shipping a System for repair date is covered under this warranty. The warranty period shall not be extended from the original purchase.

This limited warranty is valid only if the Diabecare DANA System is used in accordance with all of the manufacturer's instructions. Note that this warranty does not extend to damage as a result of the following:

- Service or repairs performed by any person or entity other than a SOOIL authorized technician.
- Modifications or changes to the System by the user or any other person after the date of manufacture.
- A force majeure or other event beyond the control of SOOIL or acts of negligence, misuse, or mishandling of the System by the user or any other person including but not limited to physical abuse of the product such as dropping or otherwise damaging the Diabecare DANA System.
- Failure to follow the manufacturer's instructions, including those for storage, transport or cleaning for the Diabecare DANA System.
- This warranty does not cover batteries, Infusion Sets, cartridges or other accessories of the Diabecare DANA System.

WARNING: Use of Infusion Sets, cartridges and batteries not specifically indicated by the manufacturer may result in harm or injury to the user or the device.

Except as expressly set forth in this limited warranty, all other warranties are expressly disclaimed and excluded including, without limitation, any warranties of fitness or merchantability for a particular purpose

The remedies provided herein are the exclusive remedies available in the event of any breach hereof. Except for such remedies, SOOIL Development Co. Ltd., its distributors, suppliers and agents shall not be liable for any losses, liabilities, claims, or damages of any kind or nature whatsoever including, without limitation any indirect, consequential, incidental or special damages caused by or arising from a defect of the System.



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IFU-130-EN (rev.0_000000)