



NEGATIVE PRESSURE WOUND THERAPY TRAINING

PRODUCT TRAINING: Level 100



Training Topics

- Understanding features of the pump
- Understanding the operation of the pump
- Setting a therapy mode
- Alarm settings
- Understanding the troubleshooting menu
- Required maintenance of pump
- Accessories of the pump



Basic Features



Device Operation

- **Use only the battery charger provided by Cork Medical**

Specification: 14.8volt /16.8volt max, 1300mah, Lithium Polymer pack with safety circuit

- Failure to comply may result in permanent damage to the pump device, which will not be covered by manufacturer warranty
- Contact Cork Medical for a replacement charger
- Charger indicator light on keypad will illuminate when connected to AC power
- The pump will continue to run while the device is charging



Device Operation

- Up to 48 hours of battery life
(One of the best on the market)
- Recharge time while running = 2.5 hours
- The battery status and percentage of life are displayed on the pump screen
- Blue indicator light on membrane indicates when plugged into AC power



Device Operation

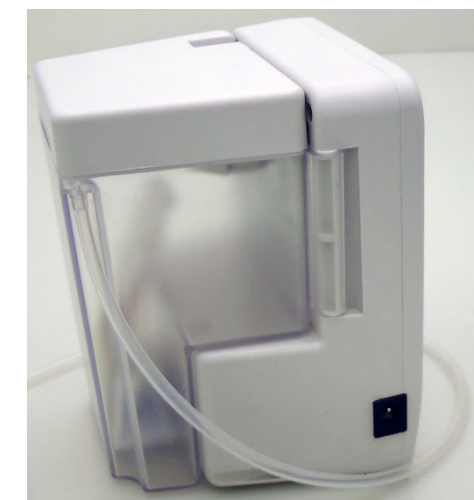
- Canisters are available in two sizes:
 - 250 ml or 500 ml
- 250 ml (Cork Medical part # CPC-250)
- 500 ml (Cork Medical part # CPC-500)
- Use only Cork Medical canisters
- Canisters are changed once a week or when full



Device Operation

■ Canister Attachment

- Attach the canister to the back of the Nisus NPWT pump by hooking the canister onto the pump hinge post, then rotating in place until you hear a 'click' - locking the canister in place.
- The drainage canister is snapped into place and will be secure once properly attached by the user.
- Gently tug on the canister to ensure it is secured.
- The canister includes drainage tubing with a luer lock fitting.
- The luer lock connector is connected to the port pad tubing.



Device Operation

- Instructions on Canister Attachment:
 - Attach the canister to the back of the Nisus NPWT pump by hooking the canister onto the pump hinge post, then rotating in place until you hear a 'click' - locking the canister in place.
 - The drainage canister is snapped into place and will be secure once properly attached by the user.
 - Gently tug on the canister to ensure it is secured.
 - The canister includes drainage tubing with a luer lock fitting.
 - The luer lock connector is connected to the port pad tubing.



Device Operation

- Hydrophobic Membrane:
 - Hydrophobic membrane prevents fluid from egressing into the pump.
 - Most hydrophobic membranes cause a significant flow restriction.
 - The Nisus' hydrophobic membrane is a revolutionary design that only causes a slight flow restriction, allowing the pump to deliver a volume of flow.



Device Operation

- Dam Design:
 - Patent pending design
 - Helps prevent false canister full alarms
 - Protects the hydrophobic membrane
 - Maze design under the dam goes one step further of protecting the membrane from false fluid egress



Device Operation

Correct Orientation

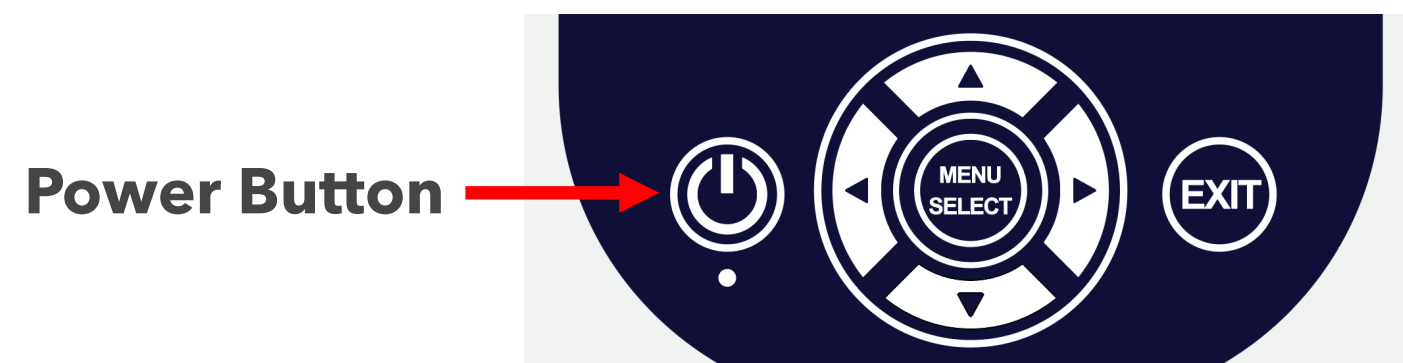


Incorrect Orientation



Device Operation

- Powering On/Off of the Pump:
 - Power on the Nisus NPWT pump by pressing the "Power" button on the keypad
 - Note: When powered on, the pump shall run according to the previous pump mode and pressure settings. If pump is being powered on for the first time, the default setting is Continuous Mode at a set pressure of 125 mmHg
 - In the event the pump needs to be powered down, press and hold the "Power" button for 3 seconds



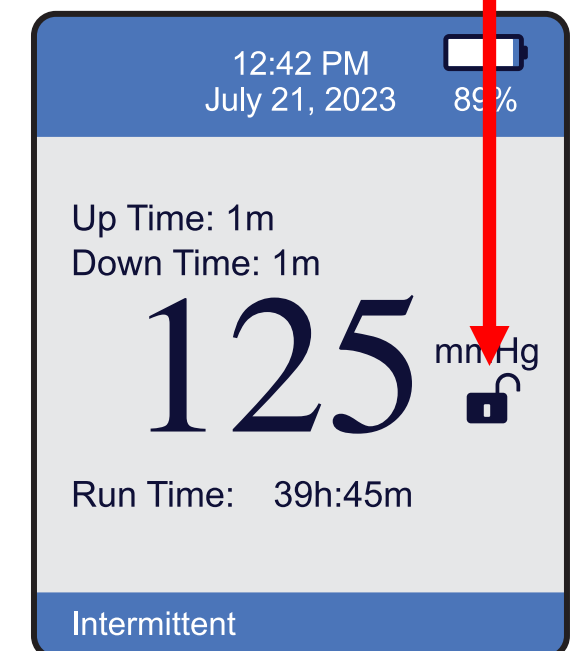
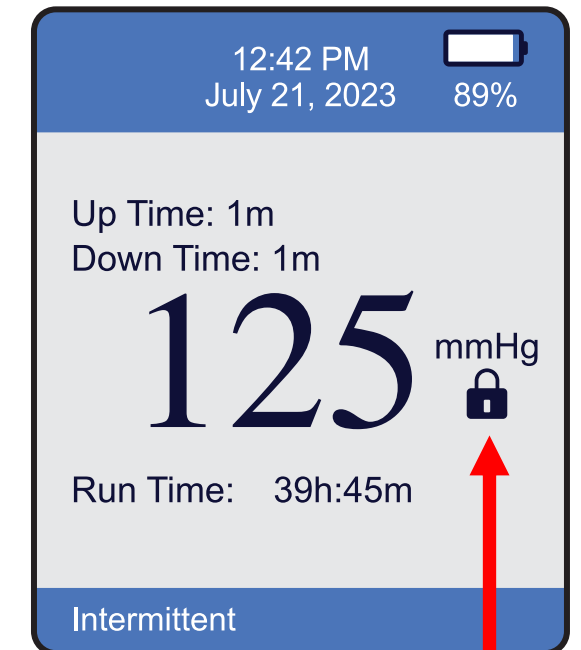
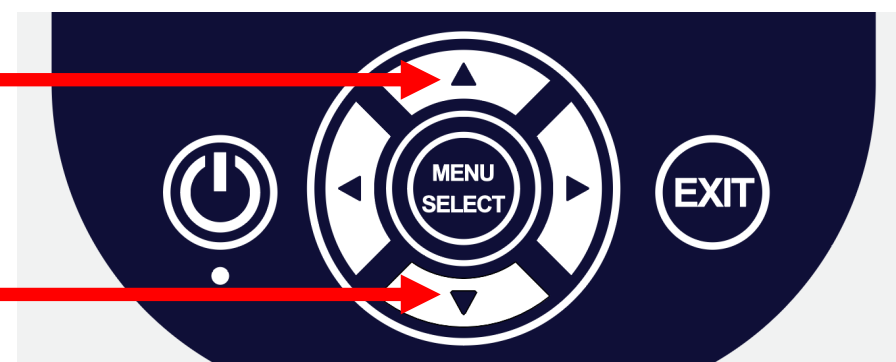
Device Operation

■ Lock/Unlock of the Pump:

- The settings of the pump can be locked by pressing and holding the "Up" and "Down" arrow keys simultaneously
- The pump unlocks by pressing and holding the "Up" and "Down" arrows simultaneously
- When the pump is locked the closed lock icon will appear
- When the pump is unlocked the open lock icon will appear
- End user is able to access the troubleshooting menu

Up Arrow

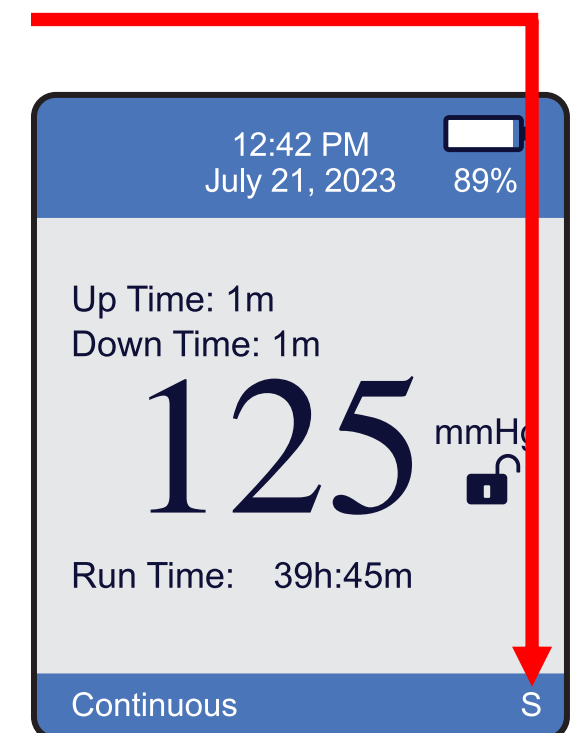
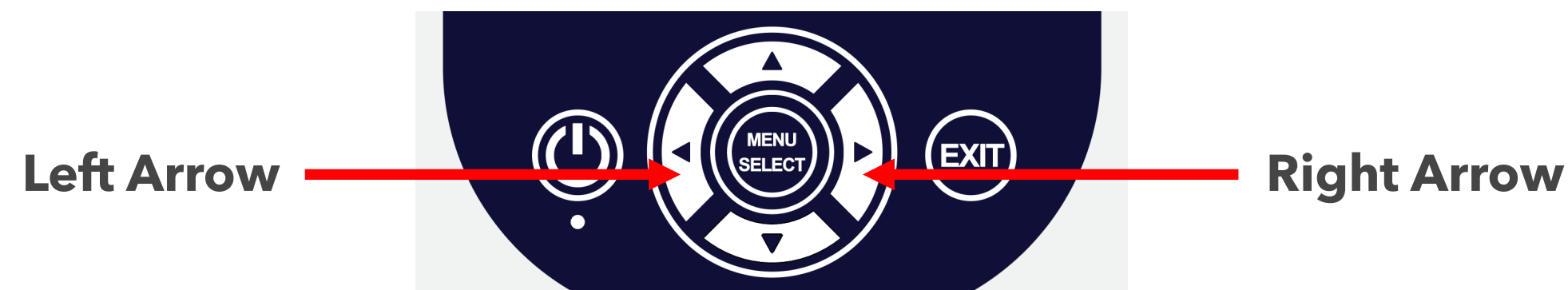
Down Arrow



Device Operation

■ Sleep Mode:

- The pump can be put into Sleep Mode by holding down the Left and Right arrow keys simultaneously
- When the pump goes into Sleep Mode, an 'S' will appear in the footer of the screen and the screen will shut down after a few minutes
- The pump will continue to run
- The Sleep Mode will be awakened if any alarms occur, or if any buttons on the keypad are pressed



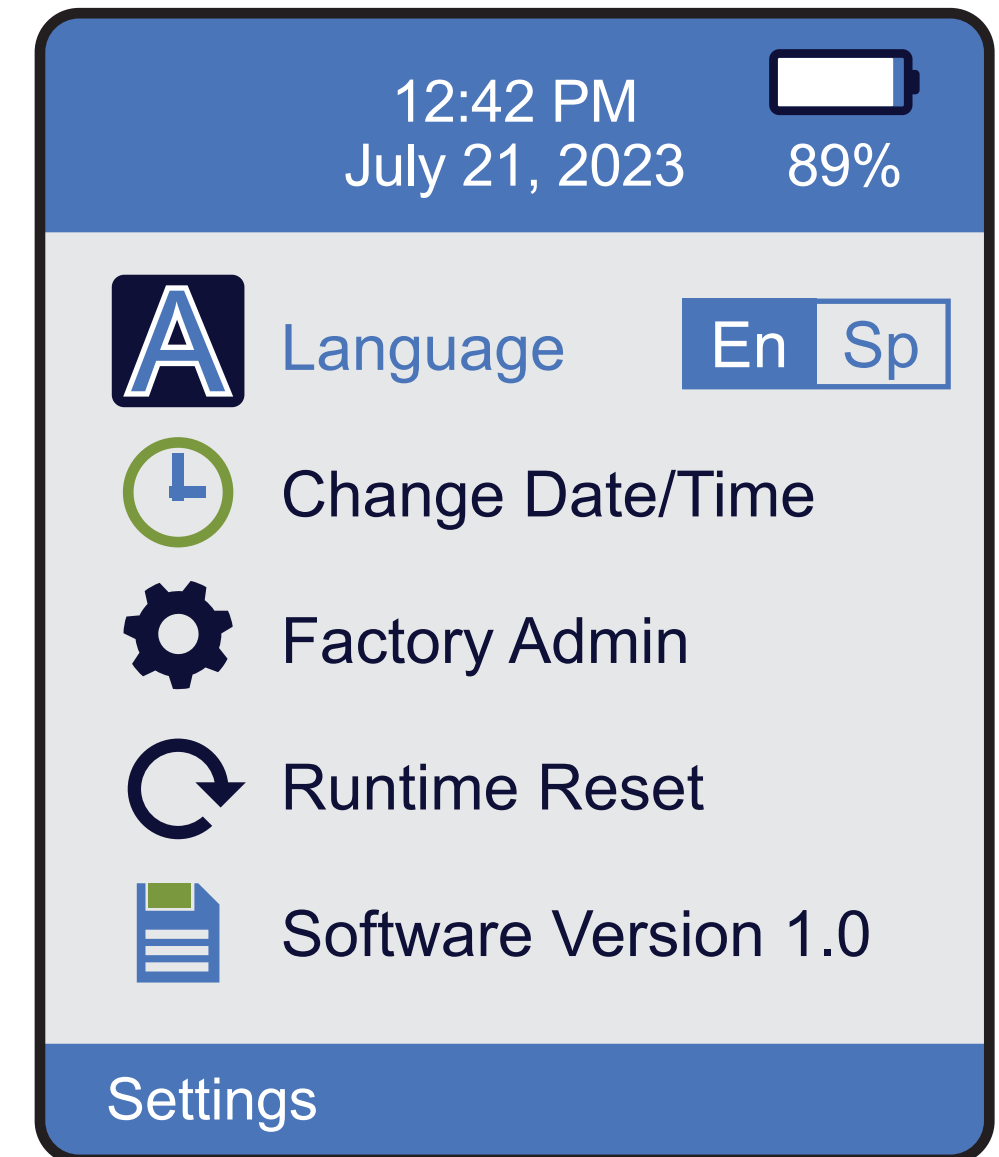
Device Operation

- General Settings:
 - To adjust general settings, press the “Menu/Select” button on the keypad
 - The menu screen displays



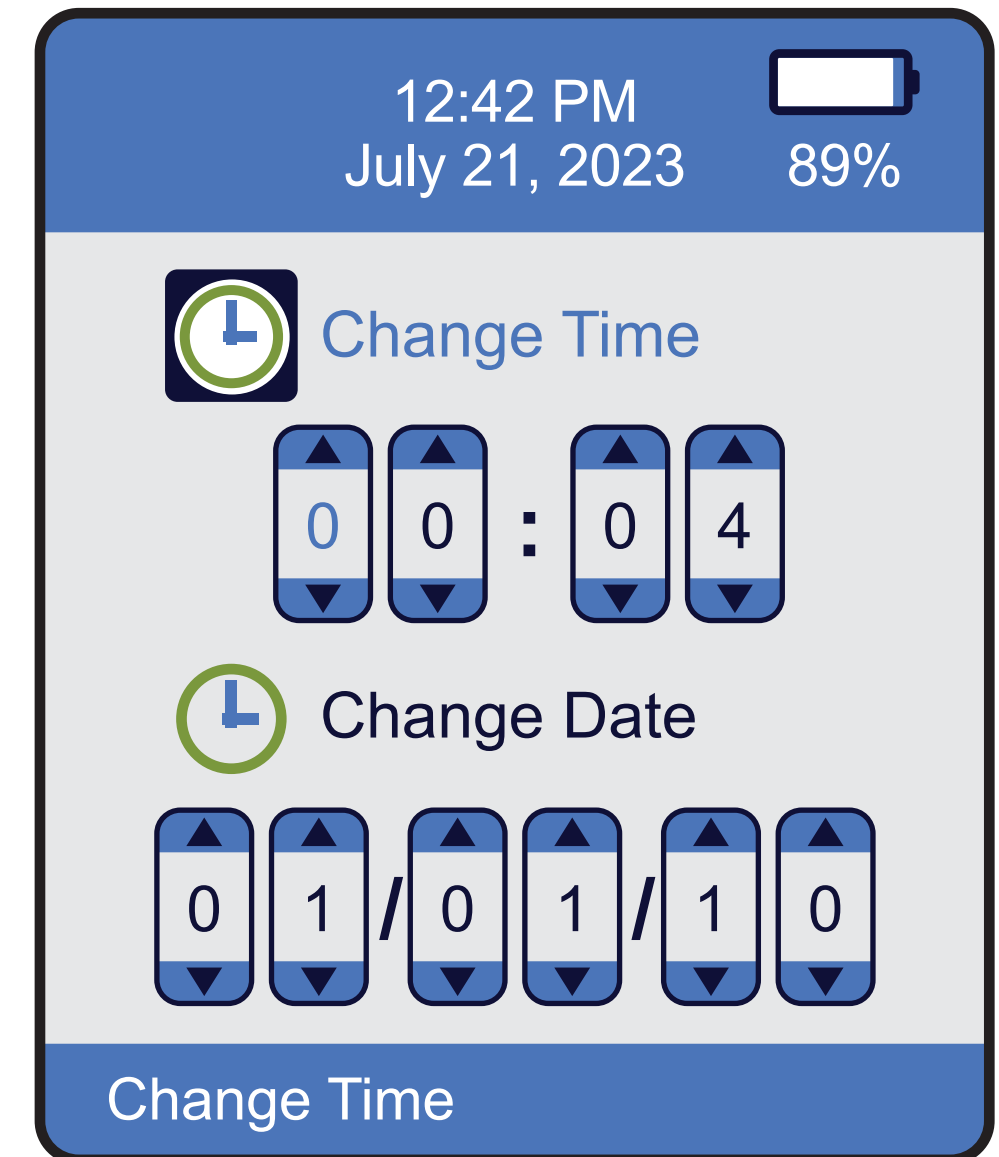
Device Operation

- Settings Menu:
 - Use the Left and Right arrow keys on the keypad to highlight 'Settings'
 - Press the "Menu/Select" button on the keypad to select
 - Date, Time, and Runtime Reset can be changed in this menu setting



Device Operation

- Adjusting Date and Time:
 - Use the Up and Down arrow keys on the keypad to highlight 'Change Date/Time'
 - Press "Menu/Select" button on keypad to select
 - Use the Left and Right arrow keys on the keypad to highlight value and adjust settings
 - Use up and down arrow keys on keypad to change date and time settings
 - Press "Menu/Select" button on keypad to select
 - Once date and time are set, press "Exit" on keypad to return to main screen



Therapy Mode

- To adjust Therapy Mode and pressure settings, press the “Menu/Select” button on the keypad
- The menu screen displays
- Use the Left and Right arrow keys on the keypad to highlight ‘Therapy Mode’



Therapy Mode

- Press “Menu/Select” button on keypad to select prescribed therapy mode
- The selected therapy mode screen will display



Therapy Mode

■ Continuous Mode:

- In the Continuous Mode settings screen, only the target pressure can be adjusted
- Use the Left and Right arrow keys on the keypad to adjust the pressure up or down to desired pressure
- Pressure options are available in increments of 5 mmHg
- The range of pressure settings can be adjusted from 40 mmHg to 200 mmHg
- The current mmHg show real time pressure
- Press the "Exit" button on the keypad to return to main screen
- Once exit is pressed a pop menu will ask to accept change 'Yes' or 'No'
- The pressure setting chosen is displayed on the middle of the screen
- 'Continuous' is displayed in the footer of the screen





Therapy Mode

■ Variable Intermittent Mode:

- The setting options are 'Up pressure', 'Up time', 'Down pressure', and 'Down time'
- Use the Up and Down arrows on the keypad to adjust the Variable Intermittent options

12:42 PM
July 21, 2023 89%



 

Continuous **Intermittent**

Up[mmHg]	125
Up Time[min]	1
Down[mmHg]	40
Down Time[min]	1
Current[mmHg]	20-

Intermittent

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Continuous **Intermittent**

Up[mmHg]	◀ 125 ▶
Up Time[min]	1
Down[mmHg]	40
Down Time[min]	1
Current[mmHg]	20-

Intermittent

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Continuous **Intermittent**

Up[mmHg]	125
Up Time[min]	◀ 1 ▶
Down[mmHg]	40
Down Time[min]	1
Current[mmHg]	20-

Intermittent



Therapy Mode

- Variable Intermittent Mode Cont'd:
 - Use Left and Right arrow keys on keypad to adjust desired pressure and time settings
 - Pressure options are available in increments of 5 mmHg
 - The range of pressure settings can be adjusted from 40 mmHg to 200 mmHg
 - Time settings are available in increments of 1 minute and can be adjusted from 1 minute to 60 minutes
 - Once desired pressure and times have been selected, press the "Menu/Select" button
 - Press the "Exit" button on the keypad to return to the main screen. All settings will be displayed on main screen
 - 'Variable Intermittent' will be displayed in the footer of the screen



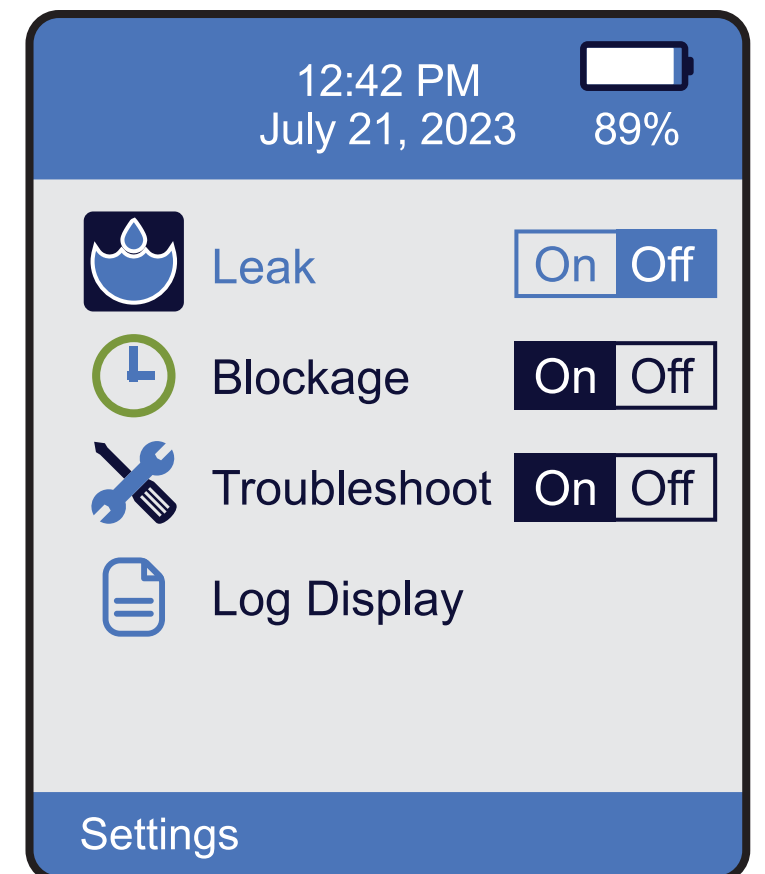
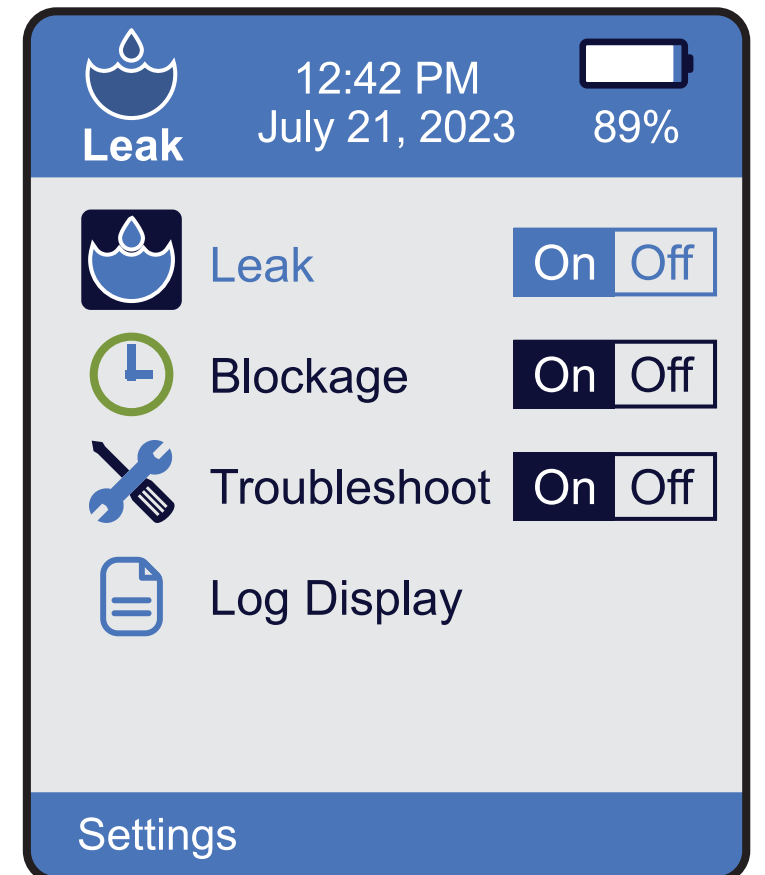
Alarm Settings

- To access the alarm, press the “Menu/Select” button on the keypad
- The Menu screen will display
- Use the Left and Right arrow keys on the keypad to highlight ‘Alarm’
- Press the “Menu/Select” button on keypad to select



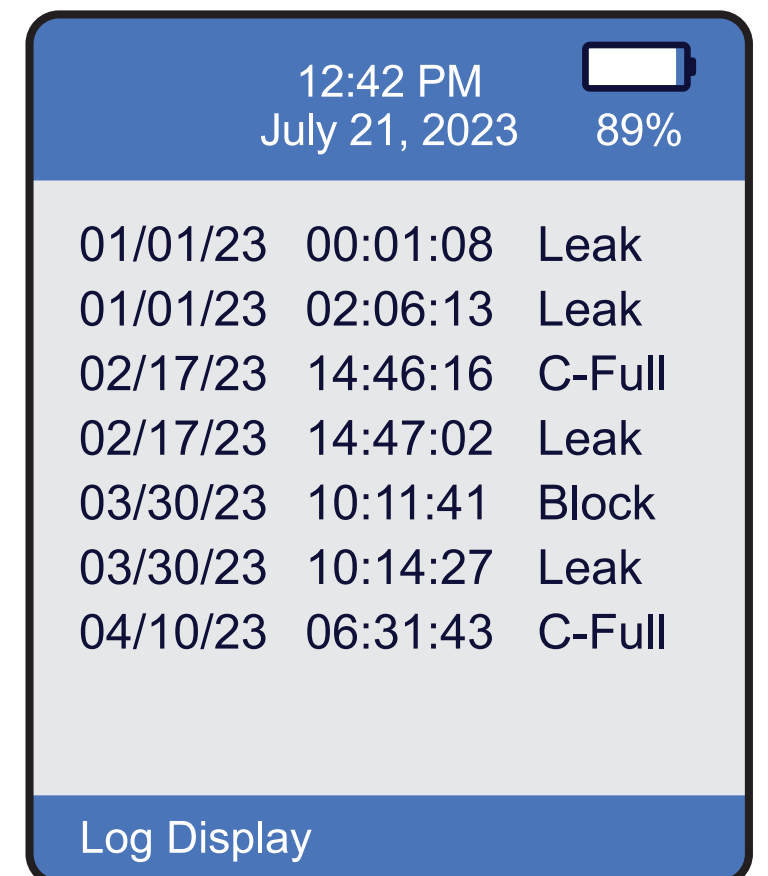
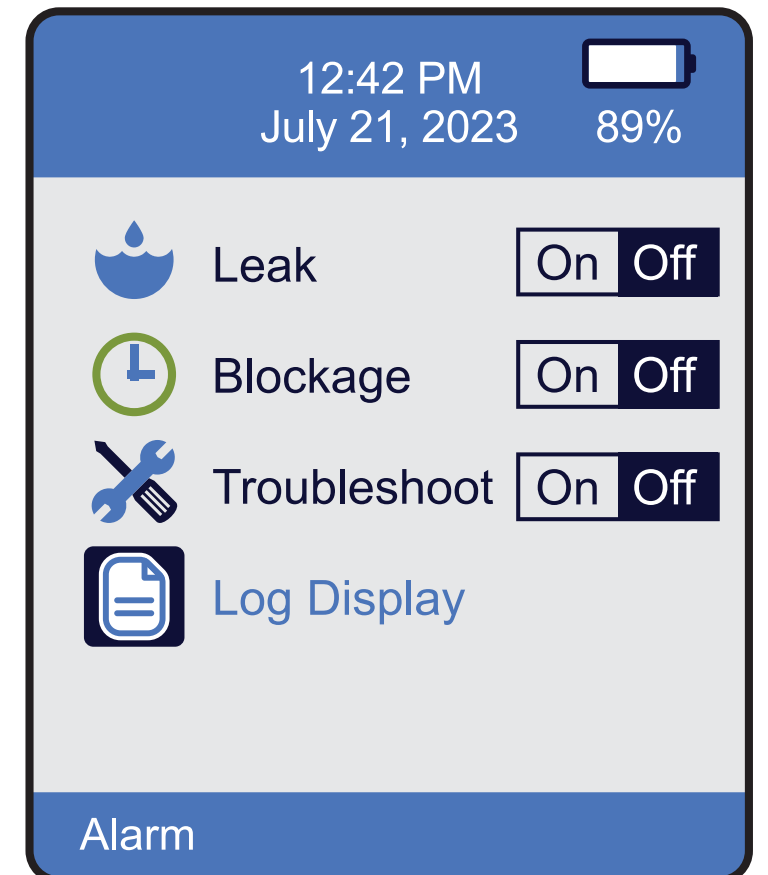
Alarm Settings

- There are three items that you are able to toggle on and off: Leak, Blockage and Troubleshoot
- Selecting 'Log Display' will show a log of any triggered alarms
- Note: Canister Full alarm cannot be turned off
- Use Up and Down arrow keys on the keypad to highlight the desired alarm
- Press "Menu/Select" button on the keypad to select
- Once alarm settings are set, press "Exit" on the keypad to return to the main menu



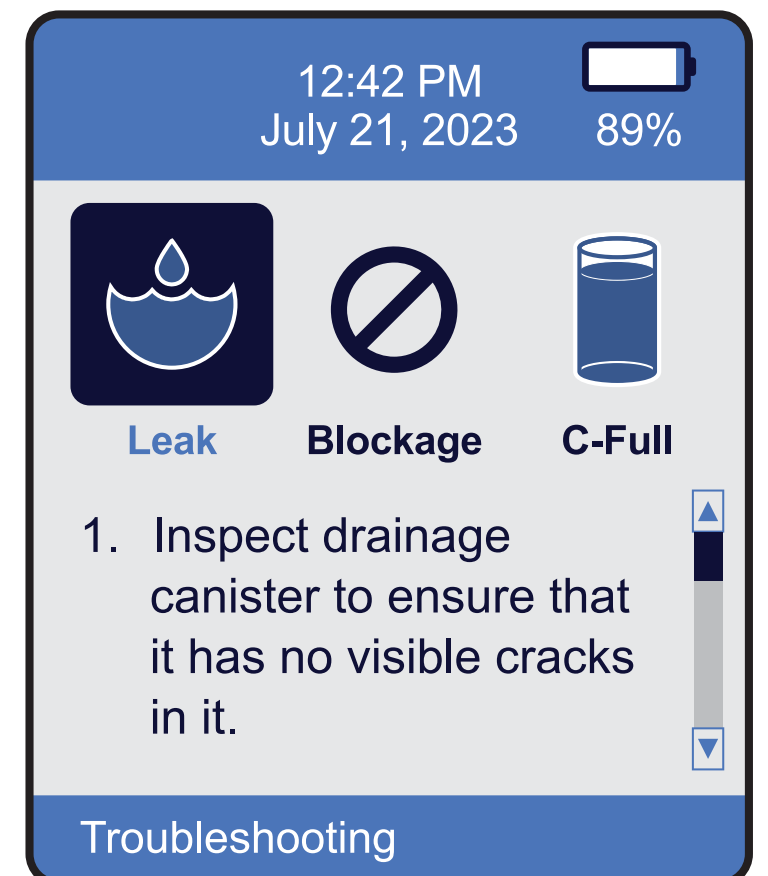
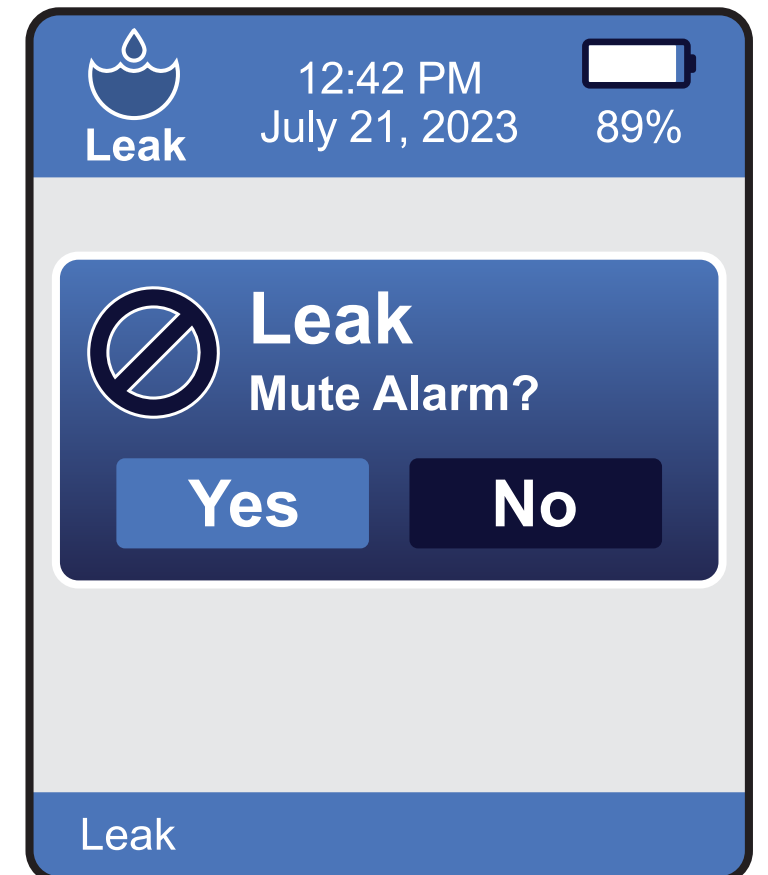
Alarm Settings

- Alarm log display
- This shows the alarm log data indicating the date and time alarm occurred
- This is reset under the factory administration menu



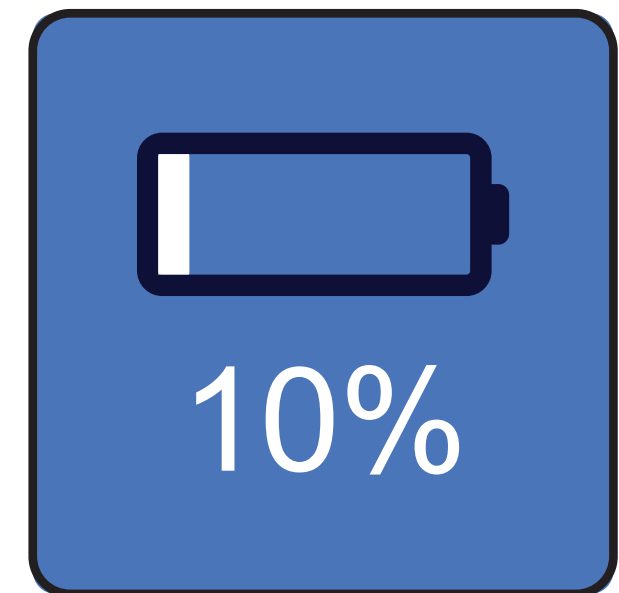
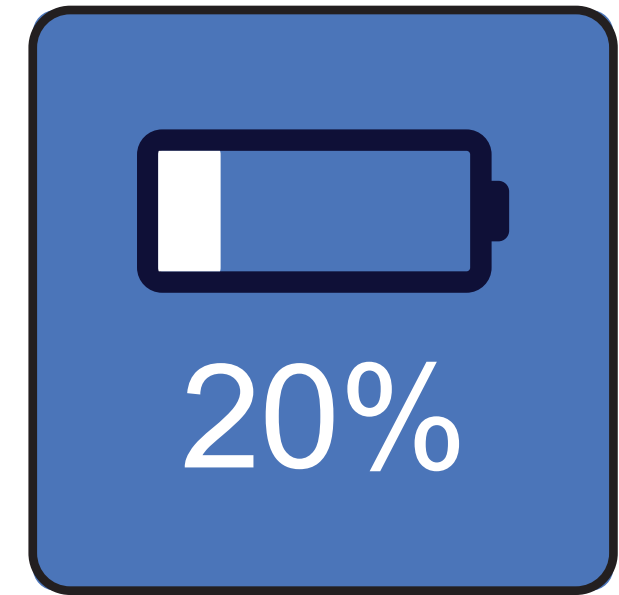
Alarm Settings

- What happens when the device alarms?
 - The pump provides audible and visual alarms to patients regarding Low Battery, Critical Low Power, Blockage, Leak, and Canister Full
 - The following alarms may be muted: Low Battery, Blockage and Leak
 - Mute 'Yes' or 'No' is selected by using Left and Right arrow keys on the keypad, followed by pressing "Menu/Select" button
 - Troubleshooting for the particular alarm will be displayed on the screen



Alarm Settings

- There are two battery alarms
- Neither one can be turned off
- Between 11%-20% remaining battery life, it will alarm low battery and beep every 5 minutes
- When the battery life drops below 11%, the pump alarms continuously and must be plugged into AC power immediately



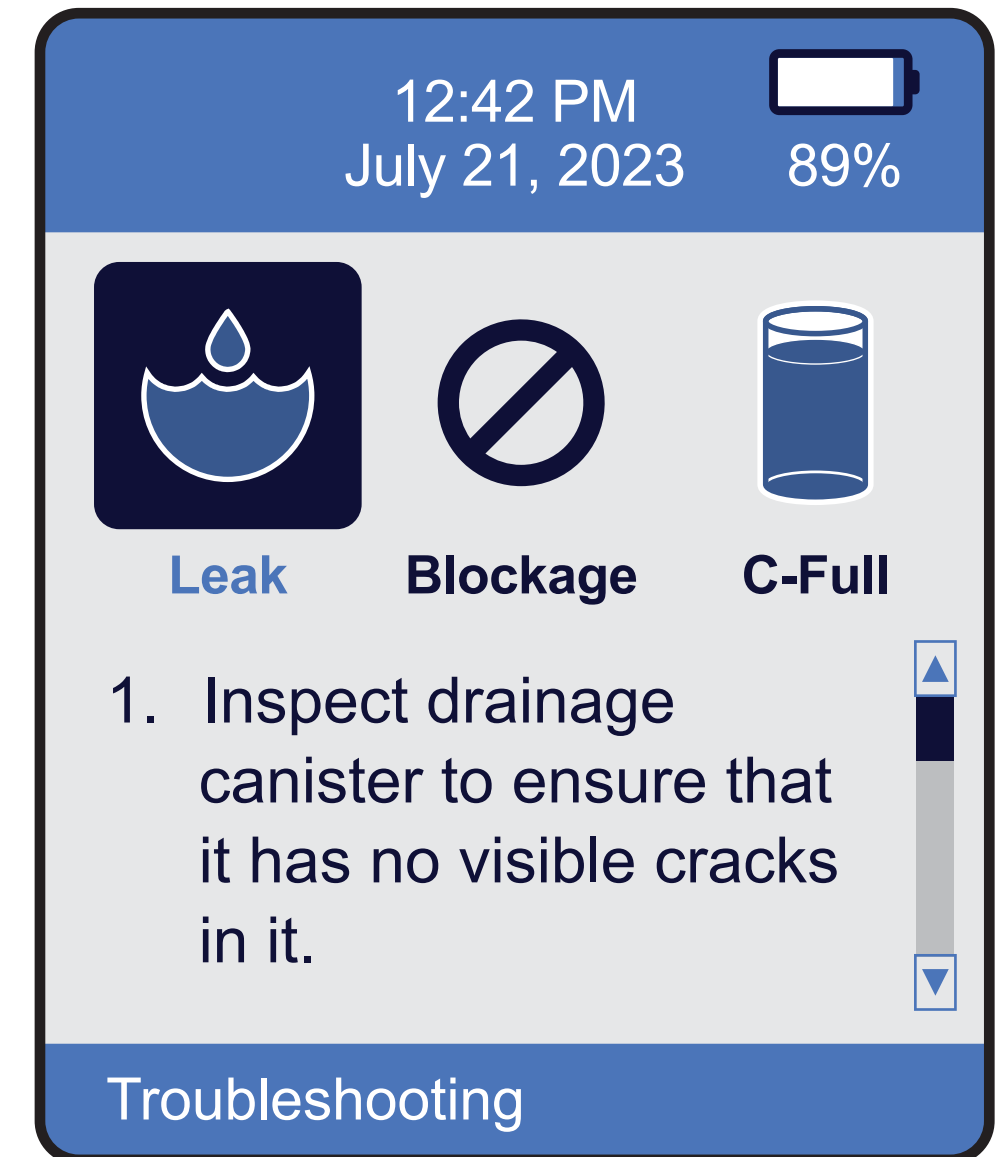
Alarm Settings

- Canister Full Alarm:
 - The Canister Full alarm cannot be muted
 - A display will pop up for instructions on the screen
 - The pump must be powered down and the full canister removed and replaced with a new canister
 - Power pump back on and resume treatment



Troubleshooting Menu

- To review the troubleshooting menu, press the "Menu/Select" button on keypad
 - The menu screen will display
 - Use Left and Right arrow keys on the keypad to highlight 'Troubleshooting'
 - Press "Menu/Select" to access troubleshooting menu
 - Use Left and Right arrow keys on the keypad to highlight troubleshooting for Leak, Blockage, and Canister Full
 - Use Up and Down arrow keys on the keypad to review troubleshooting for each item
 - Press "Exit" button to return to the main screen



Maintenance of the Pump

- Preventative Maintenance is required every 12 months
- You have the option to send in for Preventative Maintenance, or you can elect to be trained by CMP on performing the PM
- You will also have the option to make small repairs to your pump, provided completion of the training course
- If any liquid penetrates the internal portion of device, return to Cork Medical for service
- Please request RMA from Cork Medical Products for any pump repairs



Warranty

- The Nisus pump warranty is 2 years from the date of purchase
- The warranty will be void if the PM plan is not performed, or due to misuse/negligence (e.g. a drop)
- The battery warranty is 1 year from the date of purchase



Accessories

- Carrying bag for the pump
- Wire basket to be placed on walker, wheelchair, and/or hospital bag
- Cork Medical Products NPWT dressing kits
- Medium foam dressing kits
- Thick foam dressing kits
- Large foam dressing kits
- 250 ml and 500 ml canisters
- Bridge Kit, 24" Extension Tubing, Y-Connector
- Battery charger



Black Bag

- Keep the Nisus pump in the provided black bag at all times
- The bag offers protection to the pump if dropped



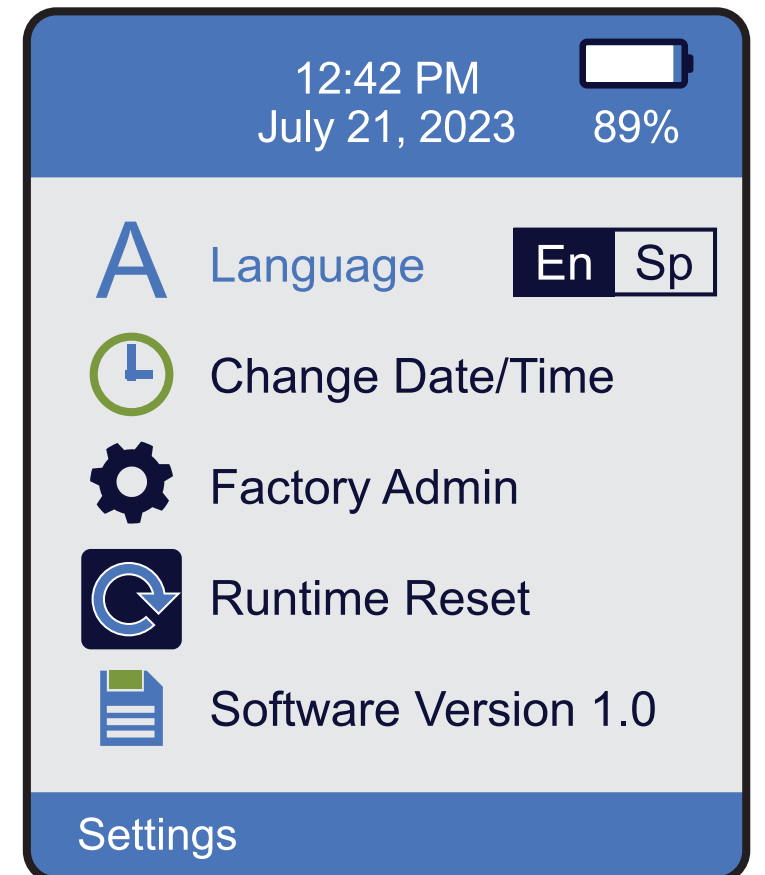
Wire Basket

- The wire basket can hang off of a bed, wheelchair, and/or walker
- The wire basket aids the patient in carrying the pump



Factory Administration

- This should be only accessed by your service department
- The code to access the menu is pressing the following buttons in sequence: **Up** arrow, **Down** arrow, **Left** arrow, **Right** arrow, **Up** arrow, and **Down** arrow
- Press "Menu/Select" after passcode is entered



Factory Administration

- USB should always be off unless loading new software
- Current mmHg can be turned off. This real time reading will not show in the Therapy menu
- Log Write can be turned off
- Pressure Tolerance is the point that the pump will turn back on to pressurize the system
- Leak Tolerance is the point that the system will recognize a leak alarm
- Block Delay is the point that the system will recognize a blockage alarm
- Intensity can increase or decrease the power of the pump
- Log Reset resets the alarm log

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USB	<input type="checkbox"/> On <input checked="" type="checkbox"/> Off
Current mmHg	<input type="checkbox"/> On <input checked="" type="checkbox"/> Off
Log Write	<input type="checkbox"/> On <input checked="" type="checkbox"/> Off
Pressure Tol	10
Leak Tol	20
Block Delay	7
Intensity	75
Log Reset	

Admin Set





Questions & Discussion