Alert, Alarms and Troubleshooting

When an ALERT is activated:
The infusion continues, LED indicator light remains green, intermittent beeps are heard approx. every 3/4
minutes and a screen message alternates with the infusion running screen.

When an ALARM is activated:
The infusion stops, the LED indicator light turns red, a continuous audible alarm activates and a screen message
displays indicating the cause.
Press STOP/NO to mute alarms. Follow screen prompts to manage alerts and alarms.

<table>
<thead>
<tr>
<th>Screen</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Battery Connect to Charger</td>
<td>Alert: Approximately 30 minutes of battery life remaining. Connect to mains power.</td>
</tr>
<tr>
<td>Near End</td>
<td>Alert: Bag nearly empty, approximately 5mls volume remaining. Prepare new bag, if applicable</td>
</tr>
<tr>
<td>Air/Up Occlusion Check for air/occlusion</td>
<td>Air in set or the set is occluded between the infusion bag and pump.</td>
</tr>
<tr>
<td>Down Occlusion Check set/access</td>
<td>The set or access device is occluded (below pump).</td>
</tr>
<tr>
<td>Pump Paused Too Long</td>
<td>Pump has been left in the STOP state for more than 2 minutes with no key presses. Press START/OK to resume, press STOP/NO to continue pause or press and hold down STOP/NO for menu.</td>
</tr>
<tr>
<td>Door Open Close Door</td>
<td>The pump door has opened during infusion. Check set is loaded correctly, close door and re-start infusion.</td>
</tr>
<tr>
<td>End Battery Connect to Charger</td>
<td>Battery power is depleted. Connect to mains power immediately. Place pump in charger or use the battery cable to connect to the DC socket.</td>
</tr>
<tr>
<td>End of Infusion</td>
<td>Current infusion has completed. Either discontinue use or change bag to start a new protocol.</td>
</tr>
<tr>
<td>Missing Set Key Load Set &amp; Close Door</td>
<td>The set is loaded incorrectly or a non-proprietary set is loaded.</td>
</tr>
<tr>
<td>Restart Pump Switch off &amp; on Error xx</td>
<td>A technical/Internal malfunction has occurred. Follow screen prompts. If the problem cannot be rectified, remove from patient use.</td>
</tr>
<tr>
<td>Patient Bolus available in: 00:05 Auto Bolus available in: 00:30</td>
<td>Screen prompt: When an Auto bolus is being delivered, the pump beeps intermittently and a screen message displays.</td>
</tr>
</tbody>
</table>

Keypad Lock

With the keypad lock activated, the user can STOP and START an infusion, and with the infusion running use the INFO key to review infusion status.

Users cannot (for example) power off, rate change, deliver a clinician activated bolus or go to the main menu with the keypad lock activated.

Accessing Protocol/Infusion Summary

With the infusion/protocol running, press the INFO key repeatedly to display:

Press 1 - Shift totals: elapsed and operation time, boluses attempted/delivered, bolus volume and total volume.
Press 2 - Current infusion: volume remaining, volume infused, mL/hour rate and total infused.
Press 6 - Battery level: graph format of battery status (%).
Press 7 - Time and date: event log time and date.
Press 8 - Pump identification: pump name, serial number, pump production date and software version.
Press 9 - Bolus Remaining: difference between bolus mls delivered from requested.

Notes

- Refer to Operating Manual for full operating instructions.
- Users must have undertaken training before operating this device.
- Screen information/sequences may vary with different software versions and local pump configuration.
- Always follow screen prompts and before pressing keys to proceed, ensure selections made correspond with what is required.
Start a New Infusion

1. Prepare bag and set as per local policy. Load administration set into the pump.
2. To power on press and hold down ON/OFF key, pump settings display then the screen displays:

   B: xxxxxxxxxx
   Press key to Resume
   Press key for Menu

3. To go to main menu, press STOP/NO.

   Enter code, press START/OK.

   Level One Code
   Enter and Press key

4. Select prime, press START/OK.

   Enter code, press START/OK.

   Level One Code
   Enter and Press key

5. To select protocol, press START/OK.

   Enter code, press START/OK.

   Level One Code
   Enter and Press key

6. Enter a numerical ID number (optional), press START/OK.

   A: xxxxxxxxxx
   Press key to Confirm
   D:
   Select and press

7. Select protocol (use scroll keys if necessary), press START/OK.

   A: xxxxxxxxxx
   Patient Bolus Dose
   Lockout Time
   Auto-Bolus Dose
   Auto-Bolus interval
   Press to Confirm or link to Change

8. To confirm selection of auto bolus protocol, press PRIME/BOLUS.


   Use numerical keypad to select the option required, press START/OK then follow screen prompts.

   When ready, press STOP/NO to return to the review protocol settings screen.

10. When INFO is pressed, the user can change settings.

    Change settings:
    Auto-Bolus 230 mL
    Auto-Bolus 2 mL
    Auto-Bolus interval 15 min
    Select and press
    Press TO EXIT

11. Attach the administration set to the correct patient access port (unclamp if necessary).

12. Select option required and follow screen prompts.

    • Press START/OK to give auto bolus and commence protocol.
    • Press INFO to delay auto-bolus, follow screen prompts to commence protocol.
    • Press PRIME/BOLUS to deliver a loading dose (CAB), follow screen prompts, enter access code to commence protocol.

Basal Rate Change During Delivery (Rate Titration)

Infusion Screen Running

Actual pressure

The bar displays real time in-line pressure. Units of measure, start value, and peak value are subject to the pump pressure settings. The bar is divided to 3 parts. Actual pressure is displayed as red fill. When the pressure rises from one segment to the next a beep will sound. If the pressure reaches the end value (1100 mmHg in the above example) the pressure alarm will activate.

Changing Bolus Dose and/or Lock Out Time

Remember to de-activate and activate keypad lock if necessary.

1. With the infusion in progress, enter the new rate using the numerical keypad, press START/OK.
2. Enter the relevant access code using the numerical keypad, press START/YES.
3. Check that the new basal mL/hour rate displays on the infusion running screen.

Bag Change

Remember to de-activate and activate keypad lock if necessary.

Ensure set is disconnected, press START/OK.

On completion, the next screen displays.

New Patient?

Patient ID: Answer or

Press key to Primary

Warning!

Disconnect Patient
Press key to Primary


To start protocol press START/OK.

To change, press INFO.

10. When INFO is pressed, the user can change settings:

    Change settings:
    Auto-Bolus 230 mL
    Auto-Bolus 2 mL
    Auto-Bolus interval 15 min
    Select and press
    Press TO EXIT

11. Attach the administration set to the correct patient access port (unclamp if necessary).

12. Select option required and follow screen prompts.

    • Press START/OK to give auto bolus and commence protocol.
    • Press INFO to delay auto-bolus, follow screen prompts to commence protocol.
    • Press PRIME/BOLUS to deliver a loading dose (CAB), follow screen prompts, enter access code to commence protocol.

Clinician Bolus (Designated Users Only)

Remember to de-activate and activate keypad lock if necessary.

1. To stop the infusion, press STOP/NO.
2. Press PRIME/BOLUS.
3. Enter Clinician Bolus access code using the numerical keypad, press START/OK.
4. Follow on-screen prompt to enter the bolus dose required and to commence delivery, press START/OK Press STOP/NO at any time to stop delivery.

On completion of Clinician Bolus delivery, the infusion recommences.