Alerts, Alarms and Troubleshooting

Screen prompts	Result/cause	Possible actions
Keypad Locked	Only the STOP, START and INFO keys are accessible.	Disengage keypad lock if further access required.
Pump Stopped, Press YES to Resume	The infusion has been stopped.	Press **YES** to Resume the infusion or press **NO** to continue stopped state.
Program Nearly Complete	Alert: Program is about to end/syringe is almost empty.	Prepare to change syringe or discontinue pump use.
Low Battery	Alert: Battery is almost depleted.	Prepare to change battery.
Pump Paused Too Long	Alarm: The pump has been stopped/paused for more than 2 minutes without any key presses.	Press **YES** to resume the infusion, press **NO** to continue pause for another two minutes or power off.
Syringe Empty, Remove Syringe	Alarm: Current infusion program has completed/syringe is empty.	Prepare to change syringe or discontinue pump use.
End Battery	Alarm: Battery will fail imminently.	Change battery.
Syringe Displaced, Check Syringe	Alarm: One or more of the syringe detection sensors is not detecting.	Check the syringe and re-seat as necessary. Check screen messages for assistance.
Occlusion/Empty Syringe, Check Line	Alarm: Clamped line, occluded or kinked. Actuator has reached the minimum travel position.	Release the clamp, flush/replace the access device or clear the occlusion.
System Error. Press & Hold INFO for Details. If problem persists send pump for service. ERROR Startup MotMov Fail If problem persists send pump for service.	Alarm: An internal system error has occurred. Two examples of system failure screen messages are shown here, refer to the pump service manual for a full list of error codes. The user may be prompted to power off and restart, which may rectify the error. If the error recurs, take pump out of use. Press INFO to obtain error message, record error code and summary of fault and return pump to designated service centre.	

Program protection and "Resume"
- Pre-Loading and syringe empty alarm clears a program from the pump memory.
- If the option is available to resume a program, a screen prompt displays.

20ml BD Plastipak Select ↑/↓, Press YES	If the syringe size/brand displayed matches the one used, press **YES**.
Press YES to Resume, NO for New Syringe	Press **YES** to retain the current program (mL/hr rate is protected). Press **NO** to delete the current program which allows a new infusion to be programmed.

"Resume" protects the infusion rate for the current program, so:
- If the syringe volume is increased and the infusion is resumed, the duration of delivery will increase
- If the syringe volume is decreased and the infusion is resumed, the duration of delivery will decrease

NOTE: Follow local policy/procedure for the option to press when this screen displays following purge.

T34™ Ambulatory Syringe Pump
LOCK OFF RATE
Quick User Guide

- The information contained in this guide is a summary only, based on default settings. Refer to Operating Manual for full operating instructions.
- Users must have undertaken training before operating this device.
- Screen information is representative only and some text wording/screen information may vary slightly with different software versions.
- You must refer to local policy and procedures for specific guidance on pump settings/set-up and use of accessories (e.g. cannula and administration lines).
- Always follow screen prompts. Before pressing keys to proceed, ensure selections made correspond with what is required.

Start a New Infusion

Scenario
- Lock off, default 1mL/hour rate.
- Infusion required: infuse at a 2mL/hour.
- 20mL BD Pastipak syringe.
- Syringe volume after priming is 12 mL.

A. Prepare syringe
Manually prime the set.

B. Check the pump
Ensure that the device is clean, visually intact and appropriate for the intended use.

WARNING: The pump must always be used in a CME Ltd pouch or similar receptacle if used in direct sunlight. If the pump is exposed to direct sunlight, it may affect functionality.

C. Insert battery
Fit the battery correctly.

D. Power on and observe Pre-Loading

With no syringe in place and barrel clamp arm down, press **ON/OFF** until the screen illuminates.

```
        T34
  Version NCAT xxxxx
   ID: (Syringe Pump)
```

Observe Pre-Loading: automatic actuator movement and screen information.

```
     Pre-Loading
  Use NO to Interrupt
```

WARNING: keep fingers away from actuator moving parts.

```
Occlusion    xxx mmHg
Max rate         5ml/h
Program lock       OFF
Battery status     99%
```

Wait until the "Load Syringe" prompt displays.

```
     Load Syringe
```

E. Check battery level
Press **INFO**.

```
Info Menu
Battery Level
Select ↑↓, Press YES
```

Press **YES**.
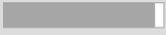
```
Battery Level
                   99%
Empty           Full
```

F. Load and confirm syringe
Align the syringe to pump syringe fitting sensors.
- Use the **FF/BACK** keys to move the actuator as necessary.
- Fit the syringe into the sensors.

If the syringe size/brand displayed matches the one used, press **YES**.
(If they do not match, use ↑/↓ keys).

```
  20ml BD Plastipak
  Select ↑↓, Press YES
```

G. Program the pump
Pump default settings display, wait for next screen.

```
Occlusion    xxx mmHg
Max rate         5ml/h
Program lock       OFF
Battery status     99%
```

Visibly check if the volume in the syringe matches the volume displayed. Change if necessary, confirm by pressing **YES**.

```
20ml BD Plastipak
Volume        12 ml
Change ↑↓, Press YES
```

Enter the required mL/hour rate and confirm by pressing **YES**.

```
20ml BD Plastipak
Rate          0ml/h
Confirm, Press YES
```

Review the program summary, if correct, press **YES**.

```
Volume      12.0ml
Duration    12:00
Rate        1.00ml/h
Confirm, Press YES
```

(If purge required, press **FF** key before pressing YES and follow screen prompts).

H. Start infusion
Connect set to access device.

To commence the infusion, press **YES**.

```
    Start infusion?
```

When the infusion is in progress, this screen displays.

```
Time Remaining 11 : 59
Rate          1ml/h
<<< Pump Delivering
```

Monitoring During Infusion

Regular monitoring should include checking:
- That all connections on the syringe/set are secure.
- That there are no kinks in the tubing.
- For signs of physical damage to the pump and lockbox.
- That the keypad lock is on.
- That the infusion is in progress.
- The volume history and battery status.

To confirm the infusion is in progress:

a) The pump LED light will intermittently flash green

b) The LCD screen will display information:

Line 1 - infusion time remaining

Line 2 - mL/hour infusion rate

Line 3 - alternates between the syringe size and brand confirmed and "<<<< Pump Delivering"

To check volume history and battery level:

Press the **INFO** key once:

```
Infusion Summary

VTBI   8.0      VI   4.0
```

Press **INFO** key twice:

```
Battery Level
                   99%
Empty           Full
```

Rate/duration titration

If enabled, the rate can be titrated during infusion.

1. Deactivate keypad lock.

2. With infusion is running, press ↑ or ↓ key to change the rate, confirm by pressing **YES**.

3. Check that the rate change completed and is correct (check that the time remaining has changed accordingly).

4. Activate keypad lock.