

Alert and alarm conditions

When the **ALERT** activates:

1. The infusion continues
2. Three beeps are heard approximately every three/four minutes
3. A screen message alternates with the infusion running screen until the end alarm activates

Alerts activate approximately 15-30 before end alarm

When the **ALARM** activates:

1. The infusion stops
2. The LED indicator light turns from green to red
3. The alarm sound continuously until either the pump is paused or the problem is rectified
4. A screen message indicates the alarm cause

Troubleshooting

Screen Prompts

Keypad Locked	Only the STOP , START and INFO keys are accessible.	Disengage keypad lock if further access required.
Press YES to Resume, NO for New Syringe	The current programme has been interrupted and two options are available for programming	Press YES resumes the current programme. Press NO to delete the current programme (to allow a new programme to be set up).
Pump Stopped Press YES to Resume	The infusion has been stopped.	Press YES to Resume the infusion or press NO to continue stopped state.

Alerts and Alarms

Program Nearly Complete	Alert: Programme 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.	Either press YES to resume the infusion, press NO to continue pause for another two minutes or turn the power off.
Syringe Empty, Remove Syringe	Alarm: Current infusion programme 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.	Alarm: An internal system error has occurred.	The user may be prompted to power off and restart, which may rectify the error. If 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.
ERROR Startup MotMov Fail If problem persists send pump for service.	<i>Two examples of system failure screen messages are shown here, refer to the T34 service manual for a full list.</i>	

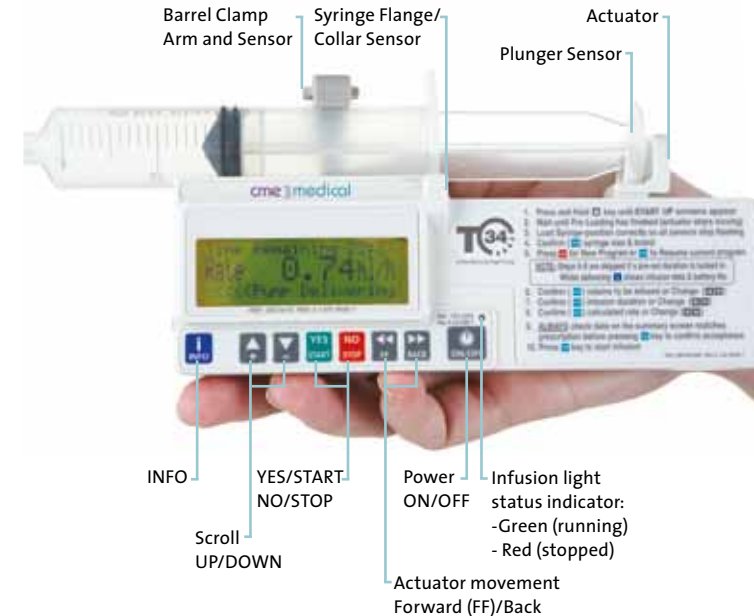
Ambulatory Syringe Pump

LOCK ON (Prime and Load)

Quick user guide



Feature recognition



CME Medical Device and Advanced User training is RCN accredited and Skills for Health Quality Marked

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.

Starting an infusion LOCK ON (Prime and Load)

Scenario

Pump settings: Lock ON, default duration 24 hours

Infusion required: Deliver syringe contents over 24 hours

Syringe and volume: 20ml BD Plastipak, 17mL volume

Set priming volume: Priming volume 0.5mL

1. Prepare syringe and manually prime the set

2. **Check the pump:** ensure that the device is clean, visually intact and appropriate for the intended use.

3. Insert battery

4. Power on and observe Pre-Loading

Press the ON/OFF key until the screen illuminates (with no syringe in place and barrel clamp arm down).

WARNING: During Pre-Loading, keep fingers away from actuator moving parts.

Observe Pre-Loading: automatic actuator movement and the screen information that displays:

T34
Version NCAT xxxxx
ID: (Hospital name)

Pre-Loading
Use NO to Interrupt

Occlusion Max rate Program lock Battery status
XXX mmHg 5ml/h ON 90%

Load Syringe

5. Check battery level

Press **INFO**

Info Menu
Battery Level
Select ↑/↓ Press YES

Press **YES**

Battery Level
80%
Empty Full

Wait for the "Load Syringe" prompt to display

6. **Align the syringe** to pump syringe fitting sensors. Use the FF/BACK keys to move the actuator as necessary.

Fit the syringe into the correct position.

Confirm syringe brand/size

If the syringe size/brand displayed matches the one used, confirm by pressing **YES**

20ml BD Plastipak
Select ↑/↓, Press YES

If they do not match, use ↑/↓ keys to select the matching syringe.

7. Check and confirm the infusion summary

If the programme is correct for the prescription, press **YES**

Volume 16.5ml
Duration 24:00
Rate 0.69ml/h
Confirm, Press YES

If purging, press FF key before pressing YES and follow screen prompts

8. Connect set/cannula to patient and start infusion

When ready, start the infusion by pressing **YES**

Start infusion?

To confirm the infusion is running, this screen is visible and the green light flashes intermittently.

Time Remaining 23:59
Rate 0.69ml/h
<<< Pump Delivering

NOTE: The bottom line alternates with the syringe brand/size confirmed

Monitoring whilst infusion is running

Press **INFO** key **once**:

Infusion Summary
VTBI 15.50 VI 1.0

Press **INFO** key **twice**:

Battery Level
80%
Empty Full

Pump features and functions

Programme protection

There is only the current "programme" available in the pump memory at any one time and it is possible to resume a programme in certain circumstances.

- Pre-Loading (automatic actuator movement) will clear a programme from the pump memory.
- Power interruption or failure does not clear a programme. When "Resume" is pressed, the mL/hour rate resumes.

Key press options of "Resume" and "New Syringe"

A programme (infusion) may be interrupted, for example, by alarm activation (e.g. syringe displacement or occlusion) or the pump is powered off for any reason and powered on with a syringe in place.

Following an interruption to the programme and during the start-up sequence, the user will be prompted to re-confirm the correct syringe brand and size:

20ml BD Plastipak
Select ↑/↓, Press YES

When the syringe brand and size matches the one placed into the pump, press **YES**.

Press YES to Resume, NO for New Syringe

The user has two options:

Press **YES** to retain the current programme (ml/hr rate is protected)

Press **NO** to delete the current programme. A new programme is then calculated.

The important feature to remember is that "Resume" protects the infusion rate for the current programme, 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 appropriate option to press when this screen displays following purge.