Alert and alarm conditions

When an ALERT is activated:

1. The infusion continues

Troubleshooting

- 2. 2/3 beeps are heard approximately every 3 to 4 minutes
- A screen message indicating the cause of the alert displays intermittently with the infusion running screen

Alert activates approximately 15 minutes prior to infusion end

When an ALARM is activated:

- 1. The infusion stops
- A continuous audible alarm activates (this will continue until either the YES key is pressed to mute or the problem is rectified)
- 3. A screen message displays to indicate the cause of the alarm
- 4. The infusion status indicator (LED) turns red

Flush/replace access device, release the clamp or

Screen	Description	Implication/Action
Low Battery	Alert: Battery is almost depleted	Prepare to change battery
Program Nearly Complete	Alert: Infusion will end soon	Prepare to change syringe or turn pump off
Pump Paused Too Long	Alarm: Pump has been left in STOP mode (on hold) for 2 minutes	Either start the infusion, continue pause or turn the pump off
End Battery	Alarm: Battery is depleted	Change battery
End Program	Alarm: Infusion is complete	Close down or start new infusion
Syringe Displaced, Check Syringe	Alarm: One or more of the syringe detection sensors is not detecting	Check screen messages for assistance Check the syringe and re-seat as necessary

Technical problem/error and failure identification

Occlusion

Check Line & Syringe

Two examples of system failure screen messages are shown here:

The pump alarms if an internal system fault has been detected and the unit will be inoperative.

Alarm: Pt access device is either

blocked, occluded, clamped or kinked

- Power the pump off and then power on again.
- If the problem cannot be rectified, power off the pump and remove from patient use.

Follow local policy and/or contact your authorised Medical Engineering Department for advice if necessary. (If possible, record the code number and a summary of the fault).

NOTE: Screen information is representative only Refer to Operating Manual for details on Keypad Lock CME Medical UK Ltd Kincraig Business Park, Kincraig Road, Blackpool FY2 oPJ

un-kink tubing

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.

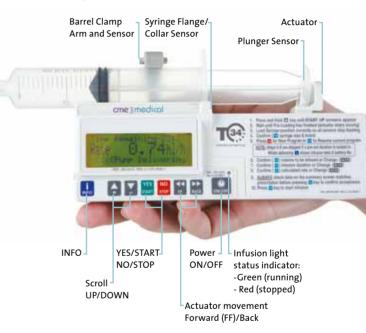
Tel: 01253 894646 Fax: 01253 896648 info@cmemedical.co.uk www.cmemedical.co.uk **Ambulatory Syringe Pump**

LOCK OFF (Prime and Load)

Quick user guide



Feature recognition



CME Medical Device Training is RCN Accredited

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 OFF (Prime and Load)

Scenario

Pump settings: Lock OFF, default duration 24 hours

Syringe: Using a 20ml BD Plastipak syringe with primed line Infusion required: Deliver syringe contents (12ml) over 12 hours

- 1. Ensure barrel clamp arm is down and no syringe in place
- 2. Press ON/OFF key to power on The actuator moves (pre-loading) and the first four screens display automatically
- 3. Software version and pump identification displays
- The actuator is moving to the position of the last syringe that was in place at the start of the previous infusion
- Pump default settings display
- Check battery level: press INFO key then YES Load the syringe

Battery status 90% Load Syringe

(If necessary, align syringe to sensors and use the FF/BACK keys to move the actuator for syringe placement)

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

20ml BD Plastipak Select ↑↓, Press YES

T34

Version NCAT xxxxx

ID: (Hospital name)

Pre-Loading

Use NO to Interrupt

XXX mmHa

Occlusion

Program lock OFF

Max rate

(Use ↑↓ keys to select the matching syringe if necessary)

5. Observe pump default settings and wait for next screen to display

Occlusion XXX mmHq Max rate 5ml/h Program lock OFF **Battery status 90%**

- 6. Change volume if required Confirm by pressing YES
- 7. Change duration to 12:00 Confirm by pressing YES
- 8. Reminder that default duration is changed and to check rate
- 9. Check rate and confirm by pressing YES
- 10. Check all settings and confirm by pressing YES (If purging press FF key before pressing YES and follow screen prompts)
- 11. Press YES to start the infusion when ready to do so
- 12. Infusion running





Time Remaining 12:00 Rate 1ml/h <<< Pump Delivering

Start infusion?

20ml BD Plastipak

Volume 12ml

Change ↑↓. Press YES

20ml BD Plastipak

Duration 24:00

Change ↑↓. Press YES

Duration Changed

Please Check Rate

20ml BD Plastipak

Rate 1.0ml

Confirm. Press YES

Confirm. Press YES

12.0ml

12:00

1.0ml/h

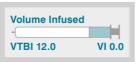
Volume

Duration

Rate

Monitoring whilst infusion is running

Press INFO key once:



Press INFO key twice:



Pump features and functions

Purge option (if enabled)

To reduce or eliminate slack (visible spaces at the syringe collar and plunger loading points) and ensure a faster start-up time (time to reach the programmed infusion rate), the user can purge the system (once only) up to a configured volume limit.

Accessing the Info menu

With no infusion running, press the INFO key.

Options for viewing are:

- Battery Level / Exit / Rate Setting / Event Log / Change Set-up
- Scroll menu using ↑ + keys and press "YES" to view the option selected

Pre-Loading and Automatic Actuator Movement

- Pre-Loading and automatic actuator movement commences when the pump is powered up with the barrel clamp arm down and no syringe is in place. NOTE: These sequences will not occur if the barrel clamp arm is raised when the pump is powered on.
- During Pre-Loading, the display screens displays pump information and the actuator moves automatically.
- These simultaneous sequences clear a programme if still in the pump
- At the end of Pre-Loading the actuator returns to the start position of the last infusion programmed.

Programme Protection: Resume or New Syringe?

Programme protection applies specifically to the ml/hour rate

This screen prompt displays if the programme is interrupted by alarm activation (e.g. syringe displacement, occlusion) the pump is powered off for any reason and powered on with a syringe in place and on completion of purge:

Pressing "YES to Resume" retains the current programme (ml/hr rate)

Pressing "NO for New Syringe" deletes the current programme enabling a new programme to be calculated using the syringe volume at that time.

The important feature to remember is that "Resume" protects the calculated infusion rate for the current syringe.

- If you increase the syringe volume and resume the programme, the duration of delivery will increase
- If you decrease the syringe volume and resume the programme, the duration of delivery will decrease