Pump Alerts, Alarms and Trouble Shooting

When an Alert Activates:
Infusion continues, 3 beeps are heard. A message on the display screen alternates with the infusion running screen until the end of the battery or infusion.

Low/end battery – the battery has approximately 30 minutes power remaining. Connect pump to charger or change battery pack.

Program nearly complete – the programme/infusion has approximately 30 minutes until complete. Prepare to change bag and re-programme or close down the device.

When an Alarm Activates:
Infusion stops. LED indicator light turns red and the alarm sounds continuously until either the pump is paused or the problem is rectified. Always note the condition before pressing the 'STOP/NO' key to silence the alarm.

Air/upstream occlusion – activates when either the upstream segment of the tubing is trapped/clamped or when more than the pre-set allowed volume of air has passed through the pump. Silence the alarm, check the upstream tubing is not occluded.

Down occlusion – indicates that an occlusion has blocked the line or access device causing pressure build up in the set. The clamp may be closed or set trapped/kinked, which you should resolve. If successful the pump automatically resumes infusion. If you cannot detect and resolve the cause the access device may be blocked. Silence the alarm and contact your Clinician immediately.

Refer over the page for manual and pump priming instructions. If re-priming is indicated, ensure the line is disconnected from the patient.

Door open – pump door has been opened during infusing. Simply close the door, silence the alarm and re-start.

Pump unattended – pump has been left ‘stopped’ or unattended (may have programmed but forgotten to press Start). Alarm sounds after 2 minutes to indicate that the pump is not infusing.

Restart pump – a system malfunction has occurred. Press the 'INFO' key and record the error code. Some errors can be resolved by turning the pump off and on again. If when the pump powers on the message is displayed again, discontinue using the equipment, contact your Clinician/Provider immediately and report the error code.

End program – alerts the user that the programme/infusion is now complete.

Missing key – the administration set is loaded incorrectly. Check that the key is positioned correctly inside the pump before continuing.

Wrong TPN Data – the programme entered by the user cannot be performed as it conflicts with either the operating parameters of the pump or the clinician/provider configurable settings (which require coded user access). Consult your clinician/provider for advice.

Clinical contact: ________________________________

Phone number: ________________________________

E-mail contact: ________________________________

→ The information contained in this guide is a summary only. Refer to Operating Manual for full operating instructions.

→ Screen information and sequences displayed are based on pump default settings and numerical values shown are examples only. You must refer to local policy/procedure for specific guidance on pump settings/set-up, protocols and use of accessories (e.g. cannula and administration lines).

→ When using the pump always follow screen prompts and before pressing keys to proceed ensure selections made correspond with what is required.

→ The information contained in this guide is applicable to software versions McTPN04, McTPN04C, McTPN05 and McTPN06.

NOTE: With previous software versions some text wording/screen information may vary slightly.

CME Medical Device and Advanced User training is RCN accredited and Skills for Health Quality Marked on all the guides.

The Multi-Function Keypad

Keys ‘0’ to ‘9’ are used to enter numeric values during programming. Keys ‘2’ & ‘0’ are also used to scroll up and down respectively in menus.

Powers the pump on and off. Press and hold until confirmation beep sounds to power off.

Starts/restarts the infusion. Confirms programming or selection during set up.

Stops the infusion when required. Deletes numbers/settings.

Takes user back up through the programming screens.

Allows set to be primed via the pump.

During an infusion repeatedly press to access infusion information: volume infused/to be infused, battery status, tube temperature and pumping pressure.
Programming the Pump in TPN Mode

1. Power On
Switch pump ON using the ‘ON/OFF’ key.

Press ‘OK’ to confirm T/HPN program or hold the ‘STOP/NO’ key to select program required.

Example shown: 2000mls over 12 hours, 1hour ramp down

2. Volume to be Infused
Enter the volume you want to infuse from the bag and press OK to confirm.

3. Total Time
Enter the ‘Total Time’ you want the infusion to run over in hours and minutes and press ‘OK’ to confirm.

4. Up Time (Ramp Up)
If required enter the ramp up duration period (in hours (hh) and minutes (mm)) or press ‘OK’ to proceed without ramp up.

The pump will gradually ‘Ramp Up’ the infusion rate over the selected duration.

5. Down Time (Ramp Down)
If required enter the ramp down duration period (in hours (hh) and minutes (mm)) or press ‘OK’ to proceed without ramp up.

The pump will gradually ‘Ramp Down’ the infusion rate over the selected duration.

6. Programme Summary and Starting an Infusion
The programme summary screen displays the infusion parameters you have just confirmed during programming or that are pre-set/locked on the pump.

Scroll ‘up’ and ‘down’ to review the summary using the ‘2’ and ‘0’ keys. Press ‘OK’.

The pump is now infusing.

Keypad Lock
Allows locking operation of the keypad to prevent tampering and/or inadvertent key presses/power off.

To activate – press and hold the ‘INFO’ key until the graphic fills left to right and beeps.

To deactivate – press and hold the ‘INFO’ key until the graphic empties right to left and beeps.

Resuming your Infusion
If an infusion has been stopped part way through and the pump powered off, when the pump is powered back on the screen displays:

Press ‘OK’ to resume your infusion at the point it was stopped or interrupted.

Press ‘NO’ to repeat the whole infusion/programme as a new infusion.