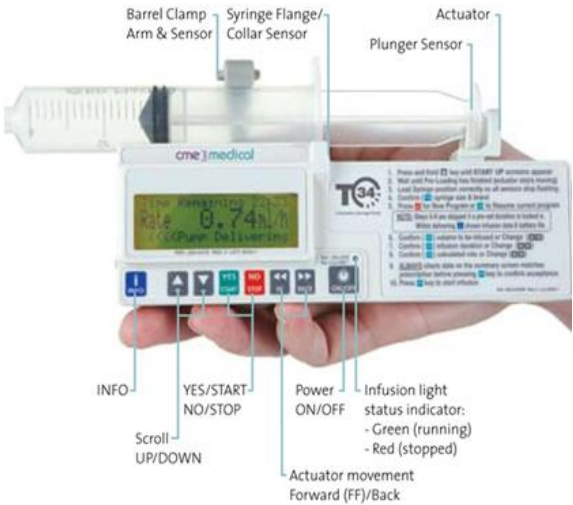
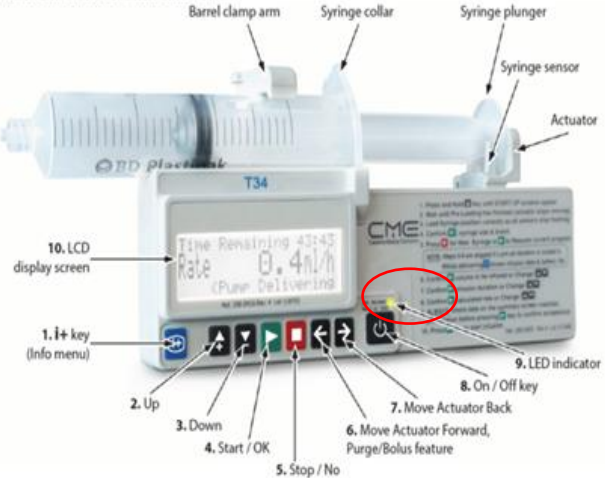
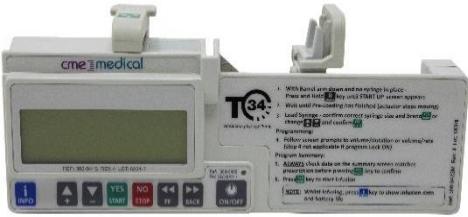
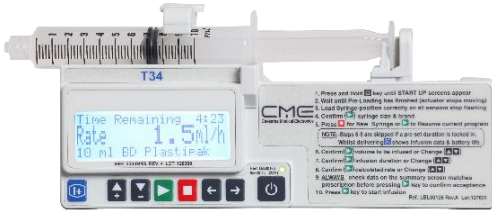

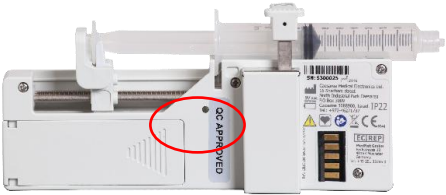


# The T34™ Syringe Pump for Continuous Subcutaneous Infusion In Palliative & End of Life Care

## Differences between the 2nd & 3rd Edition CME T34™ syringe pump

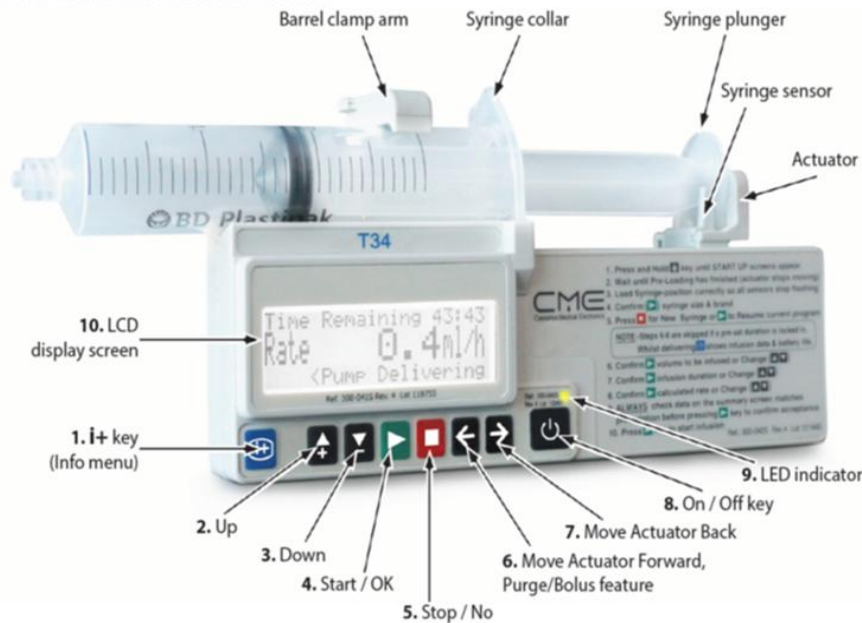
The information below is a short summary of changes to Version 3 of the T34 Syringe Pump. Full instructions for use and information / resources including videos can be found on the [Becton Dickenson website](http://www.bectondickenson.com). Contact your local Medical Physics Department for any queries or advice about the T34 syringe pumps in your area. A key difference between version 2 and the newer version 3 T34 pumps relates to battery life. With version 3, batteries may last less than 24hrs in clinical use- an update to the software to extend battery life is due during 2020. In interim, risk assessment is required when using the version 3 in community settings.

2 <sup>nd</sup> Edition	3 <sup>rd</sup> Edition
 <p>Barrel Clamp Arm &amp; Sensor Syringe Flange/Collar Sensor Plunger Sensor Actuator</p> <p>INFO YES/START NO/STOP Scroll UP/DOWN</p> <p>Power ON/OFF Infusion light status indicator: - Green (running) - Red (stopped)</p> <p>Actuator movement Forward (FF)/Back</p>	 <p>Barrel clamp arm Syringe collar Syringe plunger Syringe sensor Actuator</p> <p>10. LCD display screen</p> <p>1. i+ key (Info menu) 2. Up 3. Down 4. Start / OK 5. Stop / No 6. Move Actuator Forward, Purge/Bolus feature 7. Move Actuator Back 8. On / Off key 9. LED indicator</p> <p>Also refer to Alarm table page 3</p>
 <p>Text keypad</p>	 <p>IEC Symbols keypad –functions as V2</p>
	 <p>Hole in back casing to avoid fluid accumulation. Note still need to protect from water ingress &amp; refer to manufacturers cleaning instructions</p>

# T34™ (3<sup>rd</sup> Edition) Syringe Pump Key Pad Function

T34™ Syringe Pump System  
Section 3: Pump Features and Description

FRONT OF PUMP: KEYS AND DISPLAY SCREEN



No.	Area	Function
1.	Info Menu key	<ul style="list-style-type: none"> <li>Pressing once during infusion displays an infusion summary.</li> <li>Pressing a second time during infusion displays the current battery level.</li> <li>When pump is in standby mode, accesses the main  (Info) menu.</li> <li>Activates/deactivates keypad lock.</li> </ul>
2.	Up key	<ul style="list-style-type: none"> <li>Scrolls between options.</li> <li>Increases infusion parameters during programming/titration.</li> </ul>
3.	Down key	<ul style="list-style-type: none"> <li>Scrolls between options.</li> <li>Decreases infusion parameters during programming/titration.</li> </ul>
4.	Start / OK key	<ul style="list-style-type: none"> <li>Confirms selection.</li> <li><b>Starts</b> infusion.</li> </ul>
5.	Stop / No key	<ul style="list-style-type: none"> <li>Takes user back one step during programming.</li> <li><b>Stops</b> infusion.</li> </ul>
6.	Move Actuator Forward key	<ul style="list-style-type: none"> <li>Moves actuator forward when no syringe in place and the barrel clamp arm is down.</li> <li>Accesses purge function (if enabled).</li> <li>Accesses bolus function (if enabled).</li> </ul>
7.	Move Actuator Back key	<ul style="list-style-type: none"> <li>Moves actuator backward when no syringe is in place and barrel clamp arm is down.</li> </ul>
8.	On / Off key	<ul style="list-style-type: none"> <li>Powers the pump on and off.</li> </ul>
9.	LED indicator	<ul style="list-style-type: none"> <li>The LED indicator light is a steady green during system self-tests.</li> <li>The LED indicator flashes green to indicate infusion delivery.</li> <li>The LED indicator is a steady yellow when the pump is in standby mode.</li> <li>The LED indicator flashes red to indicate a high priority alarm.</li> </ul>
10.	LCD display screen	<ul style="list-style-type: none"> <li>Displays pump and infusion status, programming choices and instructions.</li> </ul>

<b>KEY CLINICAL UPDATES</b>	<b>Category</b>	<b>2<sup>nd</sup> edition</b>	<b>3<sup>rd</sup> edition</b>
	Battery life	Approximately three days. Ensure secure fit within battery housing	Approximately 24hrs- may be less. Risk assessment required for use in community settings. Always check battery power prior to each infusion. Ensure spare batteries are available.
	Time to alarm before end of infusion	function of flow rate	fixed to 3 min before end of infusion
	Sunlight protection on casing	no	yes
	Epidural indication - intended use	yes	No - intended use removed
	Bolus function	no	Noted as available but as use not recommended in palliative care, disabled on delivery
	Minimum Occlusion Pressure	100mmHg	200mmHg
	Hole in the back of casing to avoid fluid accumulation	no	yes

<b>Product changes T34™ (Version 3 ) Syringe pump – Alarm Tones &amp; Priorities</b>			
Description	Alarm Type	Audio Signal	Visual Signal
Down occlusion	<b>High Priority Alarm</b> Requires immediate user response	<b>High Priority</b> 5 tones Volume min. 45 dBA	Red flashing visual Operation LED flashes red
End battery			
End of infusion			
Syringe displaced during infusion			
Restart pump Switch off and on ERROR XX			
End of infusion	<b>Medium Priority Alarm</b> Requires prompt user response	<b>Medium priority</b> 3 tones Volume min. 45 dBA	Yellow flashing signal Operation LED flashes yellow
Pump paused too long	<b>Low Priority Alarm</b> Requires user awareness	<b>Low priority</b> 3 tones Volume min. 45 dBA	Yellow solid visual Operation LED is solid yellow (not flashing)
Low battery			
Near end			
Bolus started / completed	Informal signal Provides information that may, or may not require action from user	1 or 2 pulses	No visual
Keypad lock / unlock			
Syringe plunger hit the limit			
Syringe loaded			
Purge started / end			
Power on / off			
Infusion started / resumed/ stopped by user			
Service interval alert			