

## Shutdown procedure for an activated alarm with the CT900 programming tablet

The pump sounds an alarm to indicate certain pump events. There are critical and noncritical alarms.

A **critical alarm** signals imminent termination of therapy. A critical alarm is a 3-second dual-tone alarm from the pump that sounds when one of the following conditions occurs:

- Empty reservoir - The estimated reservoir volume is 0.0 ml
- EOS - The pump is at end of service
- Motor stall - The pump has detected a stalled motor
- Prolonged shutdown - The pump is shut down for over 48 hours

A **non-critical alarm** requires a clinician's attention, but does not signal imminent termination of therapy. A non-critical alarm is a single-tone alarm from the pump that sounds when one of the following conditions occurs:

- Empty reservoir - The estimated reservoir volume is below the empty reservoir alarm volume (the default setting is 2.0 ml).
- Elective replacement indicator (ERI) - Time-stamped alarm based on implanted pump longevity, which indicates 90 days before the ERI.

### Notes:

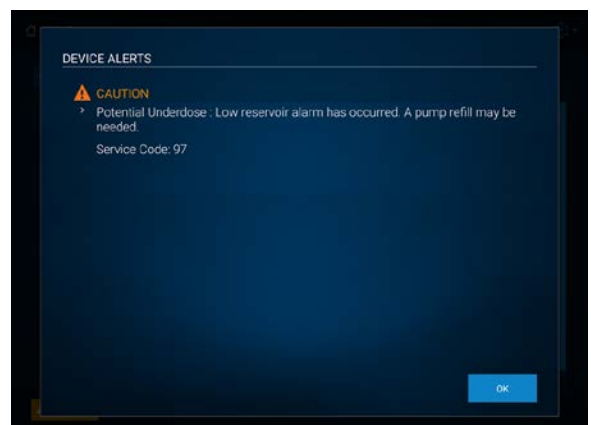
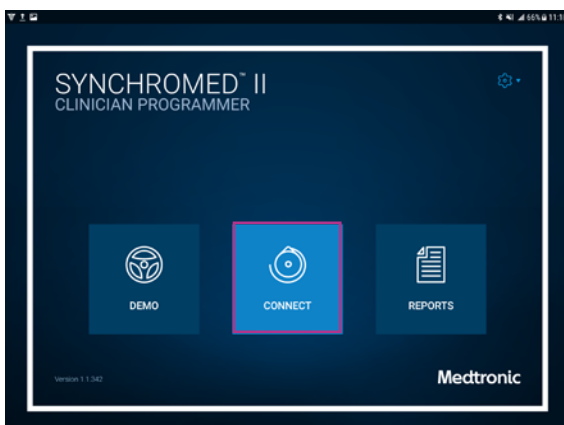
- Audible alarms can be silenced once activated; however, silencing the alarm does not resolve the alarm condition, and the condition is recorded in the Event Log.
- All activated alarm events are time-stamped and logged in the Event Log.
- Critical alarms take precedence over noncritical alarms. A noncritical alarm will not sound if a critical alarm is sounding.

### To turn off activated alarms, follow the procedure below:

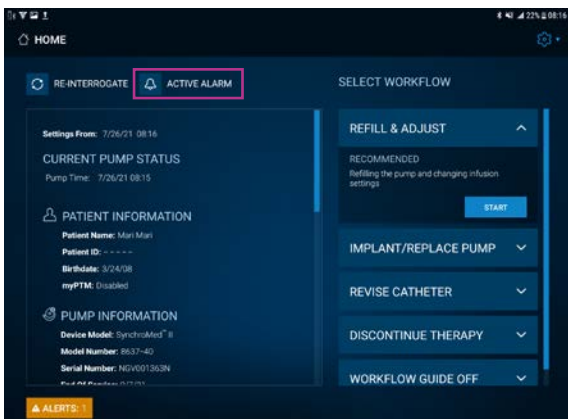
- 1 Open the SynchroMed™ II application on the tablet. Place the communicator above the pump and select **CONNECT**.

The communicator communicates with the pump.

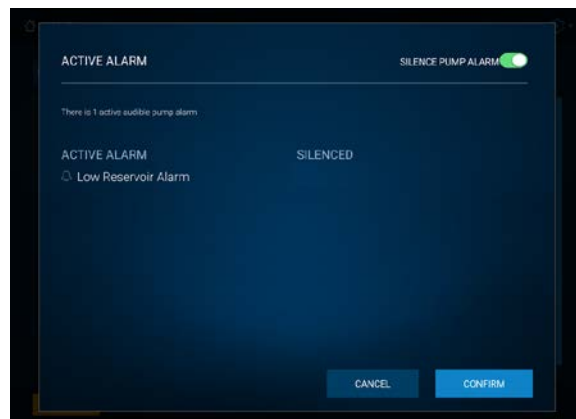
- 2 A warning message is displayed: here, we have the example of a low reservoir alarm, but this could equally be a different kind of warning.



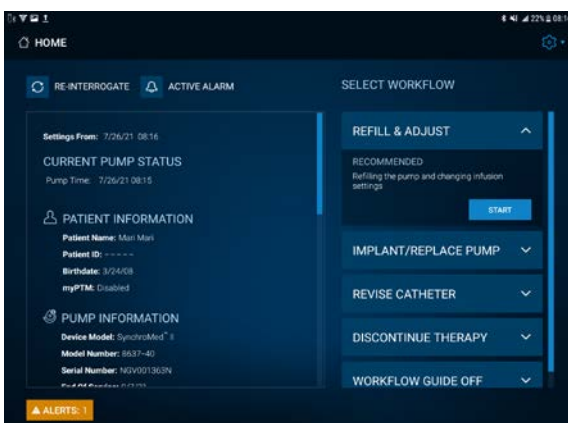
- 3 An **ACTIVE ALARM** button is displayed on the welcome screen. Tapping the **ACTIVE ALARM** button causes the **ACTIVE ALARM** window to open.



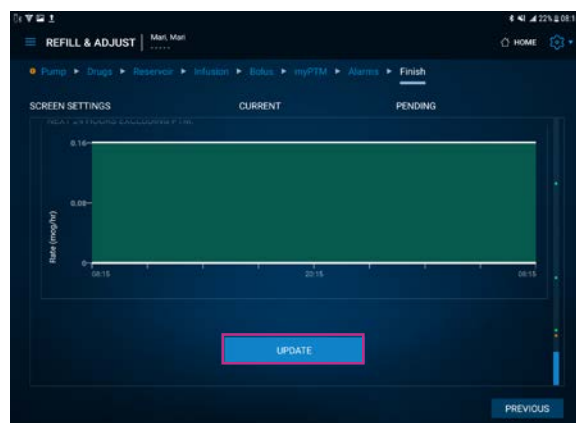
- 4 To silence the alarm, click on the **SILENCE PUMP ALARM** toggle button, then **CONFIRM**.



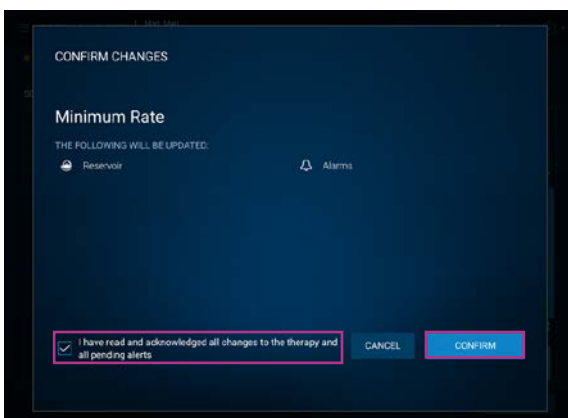
- 5 Take the nature of the alarm into account and deal with it accordingly (for example: if the low reservoir alarm is activated, fill the pump and set the volume back up to the required level). Update the pump by following the programming steps, tab by tab.



- 6 Check the programming information and click on **UPDATE**.

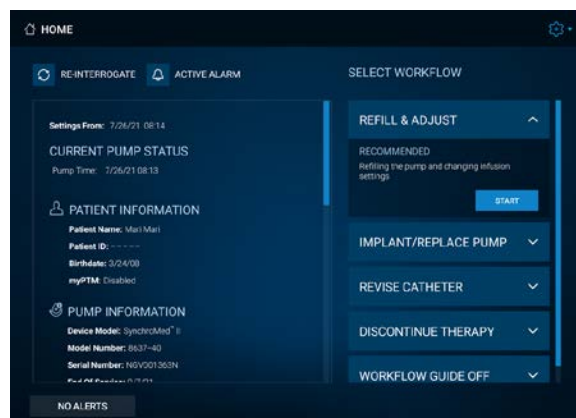


- 7 Check "I have read and acknowledged..." and **CONFIRM**.



- 8 Place the communicator on the pump for programming.

- 9 The alarms will be silenced when the pump is updated.



## Medtronic

Europe  
Medtronic International Trading Sàrl.  
Route du Molliau 31  
Case postale  
CH-1131 Tolochenaz  
www.medtronic.eu  
Tel: +41 (0)21 802 70 00  
Fax: +41 (0)21 802 79 00

medtronic.eu

United Kingdom/Ireland  
Medtronic Limited  
Building 9  
Croxley Park  
Hatters Lane  
Watford  
Herts WD18 8WW  
www.medtronic.co.uk  
Tel: +44 (0)1923 212213  
Fax: +44 (0)1923 241004

See the device manual for detailed information regarding the instructions for use, the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at [www.medtronic.eu](http://www.medtronic.eu). For applicable products, consult instructions for use on [www.medtronic.com/manuals](http://www.medtronic.com/manuals). Manuals can be viewed using a current version of any major internet browser. For best results, use Adobe Acrobat® Reader with the browser.

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