

Scenario Testing:

Test 1: Pin System – accuracy and correctness test.

Objective : Verify the security system is working as expected for correct and incorrect pins.

Preconditions : A valid pin is already set (1234)

Steps :

1. Enter Incorrect pin 2580
2. Check System Response
3. Enter Correct pin 1234
4. Check System Response

Results: System did not allowed access for the first attempt when entered an incorrect pin and displayed appropriate message however when correct pin is entered the system allowed access:

Status : Pass.

Test 2 : Pin Update Test.

Objective : Ensure that the use can change their pins successfully

Precondition : Already entered the system with correct pin.

Steps :

1. Navigate to pin update Settings > Pin Update
2. Update pin
3. Turn off the system
4. Turn on and enter old pin
5. Check response
6. Enter new pin
7. Check response

Results : After changing the pin from 1234 to 2222 when logging back in the system denied access to 1234 and provided access to 2222.

Status : Pass.

Test 3 : Bolus Glucose Auto Population Test.

Objective: Ensure that the blood glucose is appropriately auto populated when requested.

Preconditions : CGM is active and keeping track of blood glucose.

Steps :

1. Start manual bolus through bolus button
2. Activate auto-population through dedicated button
3. Verify results with the actual CGM readings.

Results : After monitoring the blood glucose which was 18.2 at the main screen when tried auto-population in the bolus it entered the exact same value.

Status : Pass

Test 4 : Extended Bolus Calculation Test.

Objective: Verify extended bolus is calculated correctly using user profile.

Preconditions: Active profile set with ratios.

Steps :

1. Start manual bolus.
2. Enter appropriate requested data.
3. Check the extended option.
4. Set Time and bolus percentage.
5. Check calculation.

Results : After setting data and calculating total bolus which was 24.25 and required immediately was set to 20% it displayed appropriate values which were 4.85 and 19.4 appropriately.

Status : Pass

Test 5 : Charging system test.

Objective : Ensure the pump is charging successfully.

Precondition : Device is turned on.

Steps :

1. Press charge button
2. Observe battery percentage change.

Results : After pressing the charge button the battery started charging in a uniform interval.

Status : Pass.

Test 6 : History Accuracy test.

Objective : Verify the device logs correct events.

Precondition : Perform several actions.

Steps :

1. Trigger multiple events.
2. Check History logs.

Results : After multiple update changes when checked in the history logs, all logs were present.

Status : Pass.

Test 7 : Graph Accuracy Test.

Objective : Verify the graph shown is accurate.

Preconditions : CGM is active with readings.

Steps :

1. Let blood glucose rise.
2. Input big dose of bolus
3. Cancel does
4. Monitor graph activity

Result : After letting the glucose rise for a bit and then delivering and cancelling bolus showed numerous spikes in the graph.

Status : Pass.

Test 8 : Tandem Logo Test.

Objective : Verify pressing of the tandem logo returns to main screen.

Preconditions : Pump is turned on.

Steps :

1. Visit some window separate from main.
2. Click on tandem logo at bottom.

Results : After visiting both bolus and option screen and pressing tandem logo brings back to main window in both cases.

Status: Pass