



Program in Sleep mode

Wake up from sleep mode

Check the state flag

The state flag is unwritten

The state flag is written

The state flag is 1

Write the state flag to 0 indicating button has not been pressed

The state flag is 0

A valid button press has just been terminated (Pin 14 changed from LOW to HIGH), infusion ended

Write the end time to flash memory

Wait for an event

No event for more than 5 seconds

A button press occurs

The button press is more than 5 seconds

The button press is less than 5 seconds

Write the start time for valid connection to flash memory

Change the state flag to 1 indicating the button is being pressed

Set button pin (14) to sense mode HIGH - Device will only wake upon this pin going HIGH
(Pressed = LOW, unpressed = HIGH)

Reset state flag to 0

Reset pin 14 to wake up on any event