

habi Gateway Thermostat

Annotated Designs

September 1, 2017

Standard Components & Behaviours

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T0.0 - Screen Waking & Inactivity Timers

No visual - see notes only

This page describes the operation of the proximity sensor and the inactivity timers as they relate to turning the thermostat screen on or off.

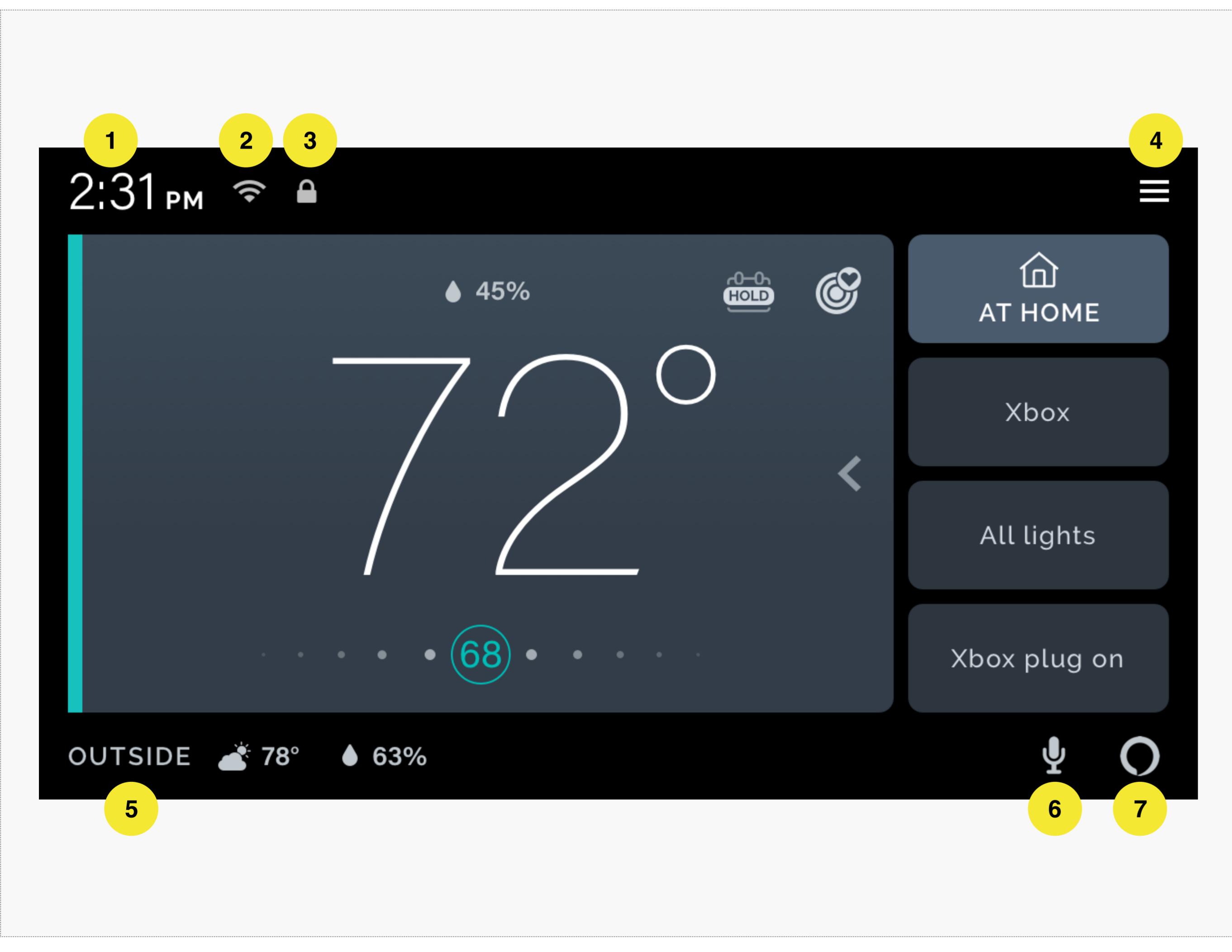
1 The thermostat screen is powered off unless the thermostat has been woken by the proximity sensor or a voice interaction.

2 There are three inactivity timers:
The **Adjustment Timer** reverts the screen to the HVAC Controls view, 2 seconds after an interaction with a specific control such as the temperature adjustment slider or the mode selector.

The **Idle Timer** reverts the screen to the default view (locked or unlocked as appropriate) 3 seconds after the last touch interaction, or the expiration of the Slider Adjustment Timer, whichever is later.

The **Sleep Timer** turns the screen off, a user-configurable period after the last touch or voice interaction. The time delay is configurable between 10 seconds to 1 minute.

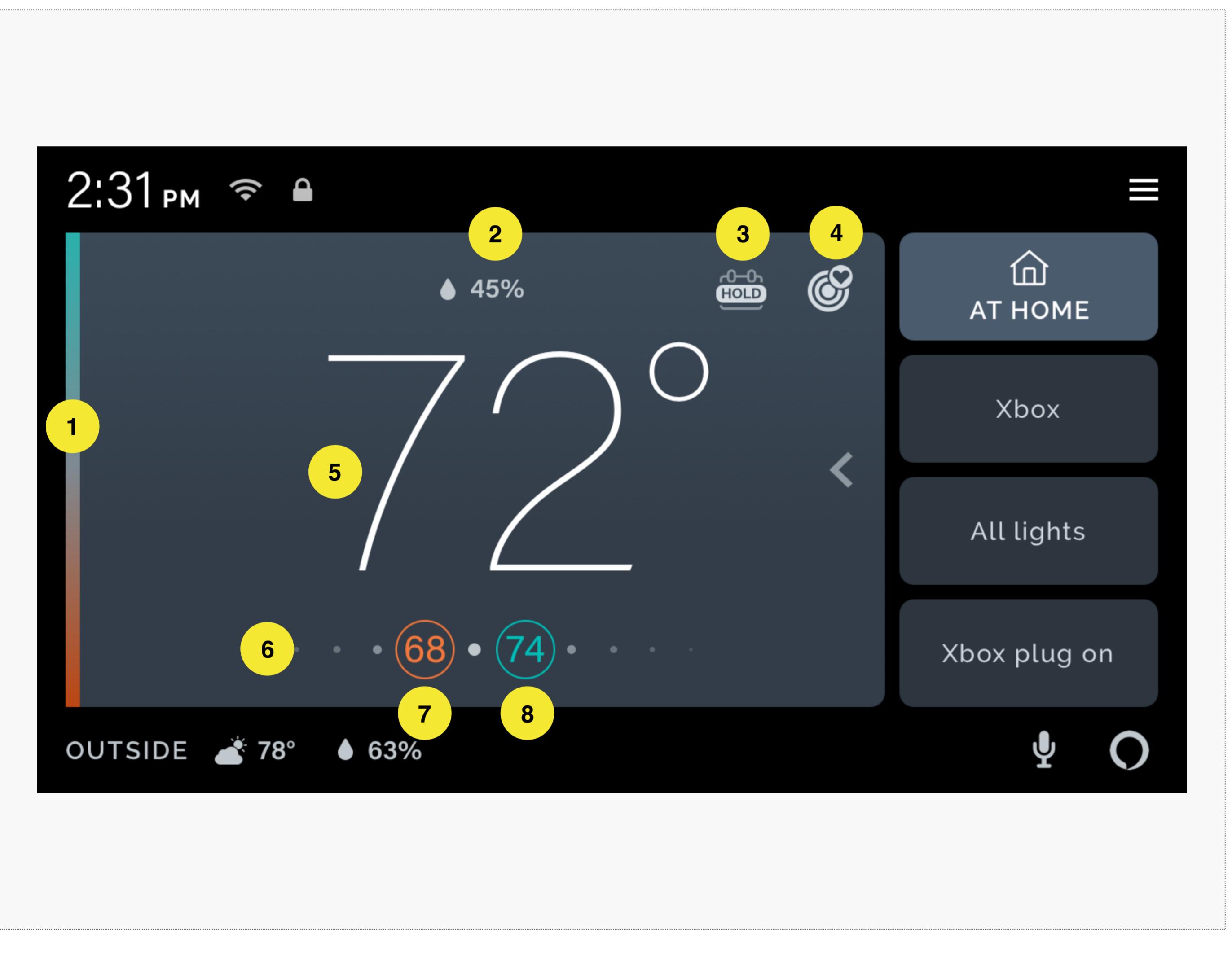
T1.0 - Top & Bottom Bars



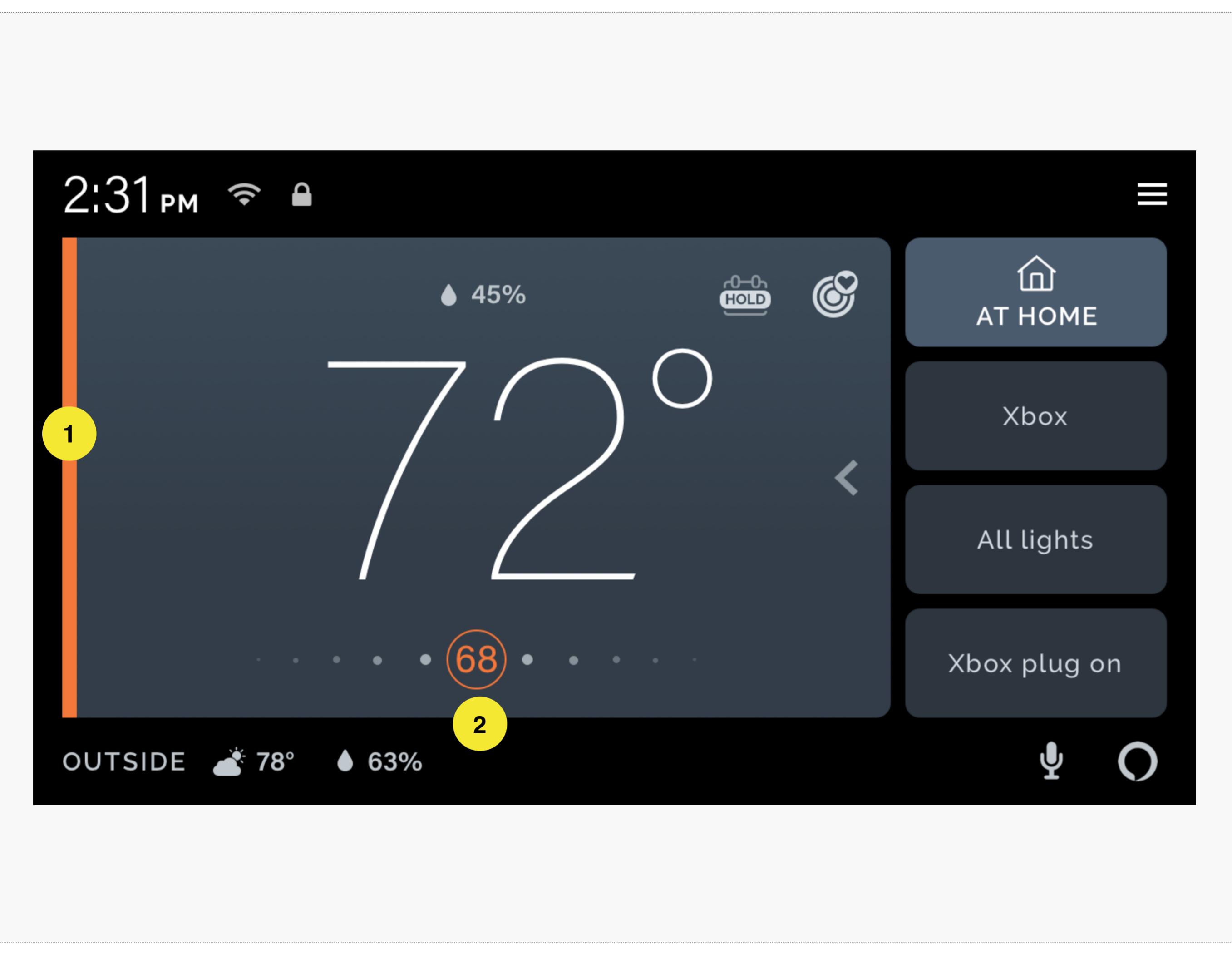
The thermostat screen has a number of fixed elements in the top and bottom bars that are displayed on every screen and always work the same way. These elements are described here.

- 1 The time is displayed in 12-hour format, indicating AM / PM as necessary. No interaction is available.
- 2 A wifi signal indicator is displayed when the thermostat has a network connection. No interaction is available.
- 3 A padlock icon is displayed when the thermostat is locked. See T8.0 - Lock Screen
- 4 A "hamburger menu" icon is displayed for access to the menu. See T7.0 - Menu
- 5 Outside temperature is displayed when it is available. Tapping this area expands the weather. See T6.0 - Weather
- 6 The Alexa (or other voice control) listening status is indicated with a microphone (with a diagonal line through it when listening is deactivated). See T4.0 - Voice Control
- 7 Physical control that can be tapped to manually initiate an interaction with Alexa included as per Amazon's AVS UX Design requirements. See T4.0 - Voice Control

T2.0 - Temperature Panel - Default (Auto Mode)



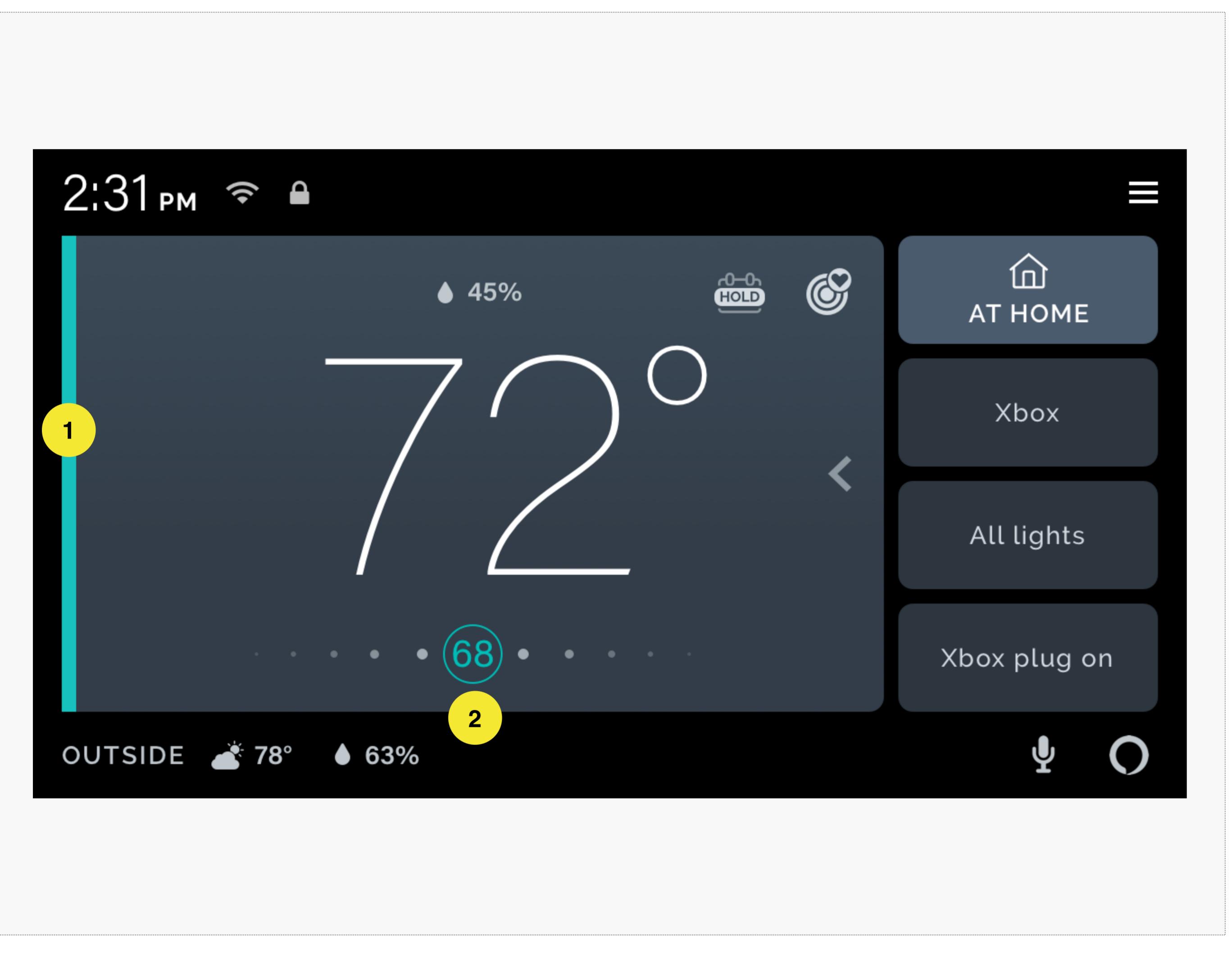
T2.1 - Temperature Panel - Default (Heating Mode)



This is the default view of the main screen of the thermostat and is displayed when the thermostat is in heating mode, is locked and no physical or voice interaction has begun.

- 1 The left bar of the temperature area is used to indicate HVAC mode and state. See T2.17 - Temperature Panel - Thermostat Mode and State Indicators.
- 2 The current heating set point is displayed in the centre of the slider.

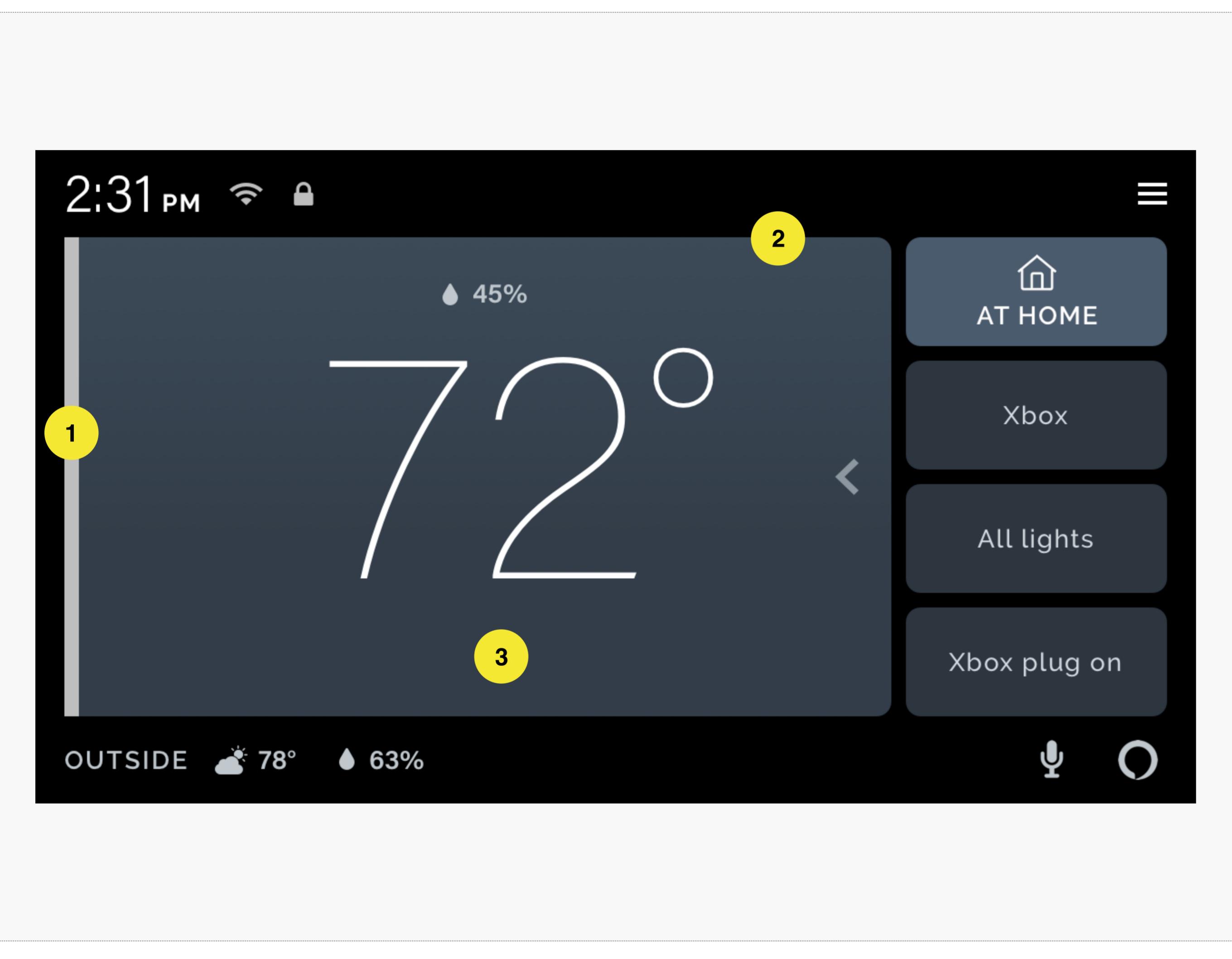
T2.2 - Temperature Panel - Default (Cooling Mode)



This is the default view of the main screen of the thermostat, displayed when the thermostat is in cooling mode, is locked and no physical or voice interaction has begun.

- 1 The left bar of the temperature area is used to indicate HVAC mode and state. See T2.17 - Temperature Panel - Thermostat Mode and State Indicators.
- 2 The current cooling set point is displayed in the centre of the slider.

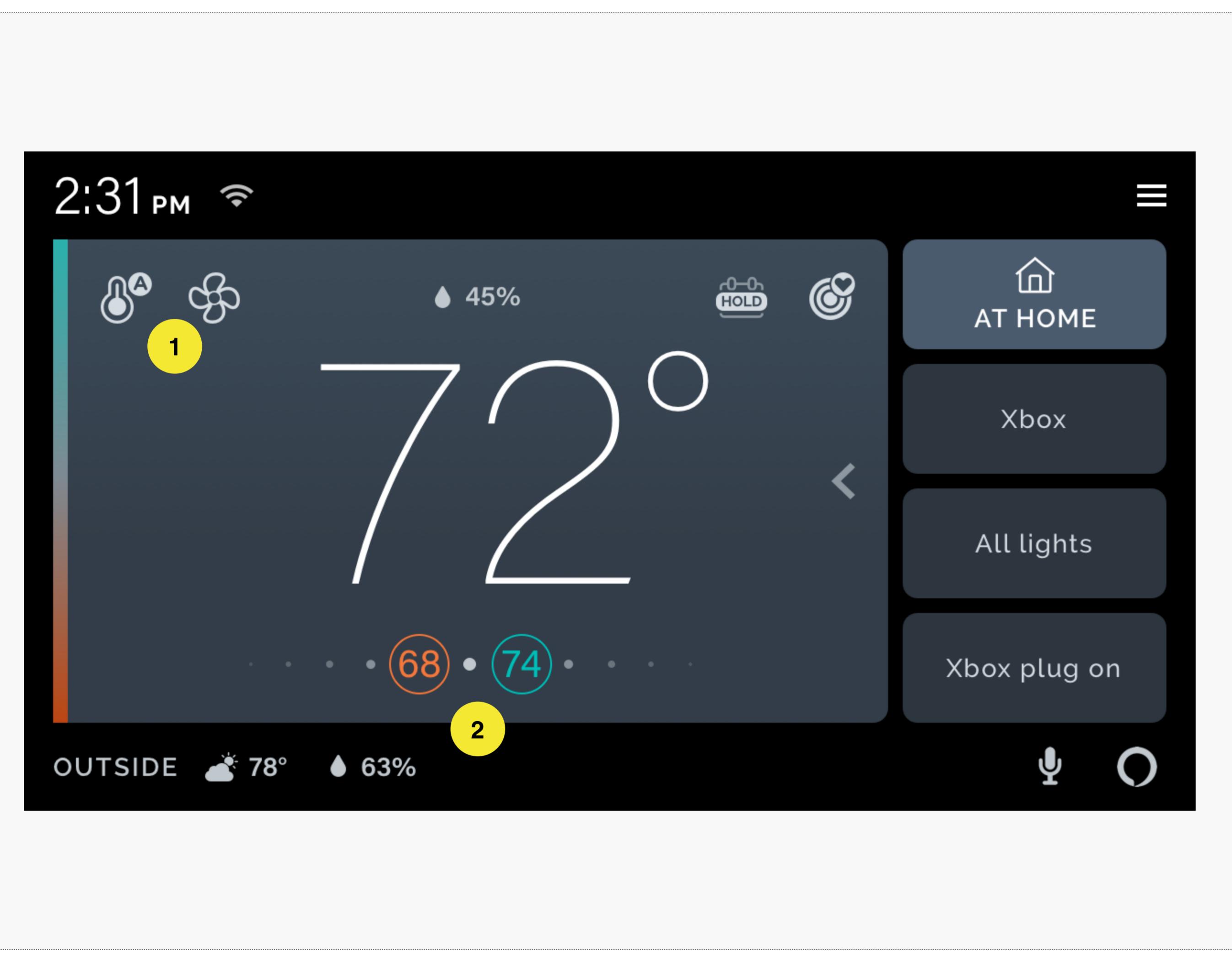
T2.3 - Temperature Panel - Default (Off Mode)



This is the default view of the main screen of the thermostat when it is in off mode, is locked, and no physical or voice interaction has begun.

- 1 The left bar of the temperature area is used to indicate HVAC mode and state. See T2.17 - Temperature Panel - Thermostat Mode and State Indicators.
- 2 Note the absence of the schedule indicator. It is not appropriate to display this in off mode.
- 3 Note the absence of the temperature adjustment slider. It is not appropriate to display in off mode.

T2.4 - Temperature Panel - Interactions



This page describes the areas that support touch interactions for changing temperature and related controls.

Note this page depicts a thermostat in Auto mode, with both heating and cooling set points. Only a single set point is displayed in cooling or heating mode, but all interactions are otherwise the same.

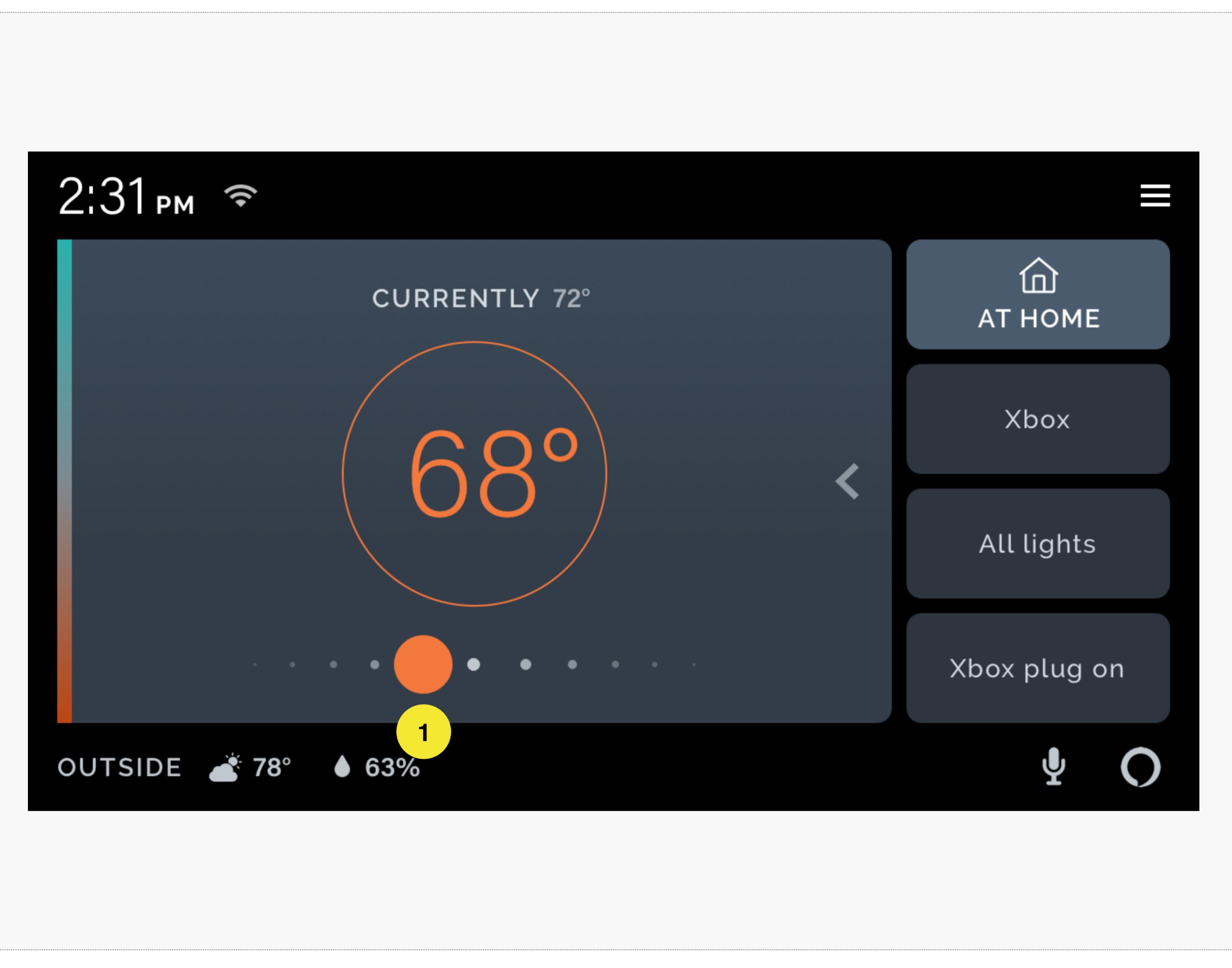
1 A tap on any part of the temperature area (except the smart drawer chevron) will take the user to either T2.6 - Thermostat Controls - Auto Mode, T2.9 Thermostat Controls - Heating Mode or T2.11 - Thermostat Controls - Cooling Mode, depending on the current HVCAC mode.

2 If the user taps on a set point, the slider becomes draggable and they are taken to T2.7 - Temperature Panel - Set Point Adjustment (Auto Mode / Heating), T2.8 - Temperature Panel - Set Point Adjustment (Auto Mode / Cooling), T2.10 Temperature Panel - Set Point Adjustment - Heating Mode or T2.12 - Temperature Panel Set Point Adjustment - Cooling Mode (depending on current mode and which set point they are dragging).

If the thermostat is in Auto mode, both set points are displayed on either side of the centre of the slider. The position of the set points is fixed. It is not proportional to the actual difference in temperatures.

If the thermostat is in Auto Mode and the user drags one of the sets points, the thermostat enters adjustment mode for only the set point that was dragged.

T2.5 - Temperature Panel - Slider Functionality



This page describes the functioning of the set point adjustment sliders when the user is dragging them.

Note this page depicts the heating set point of the thermostat when the thermostat is in Auto mode. All slider functionality is the same when adjusting any set point, except the starting or centre positions are offset in Auto mode.

1

The slider displays a large circular button at the touch location while the user is interacting with it.

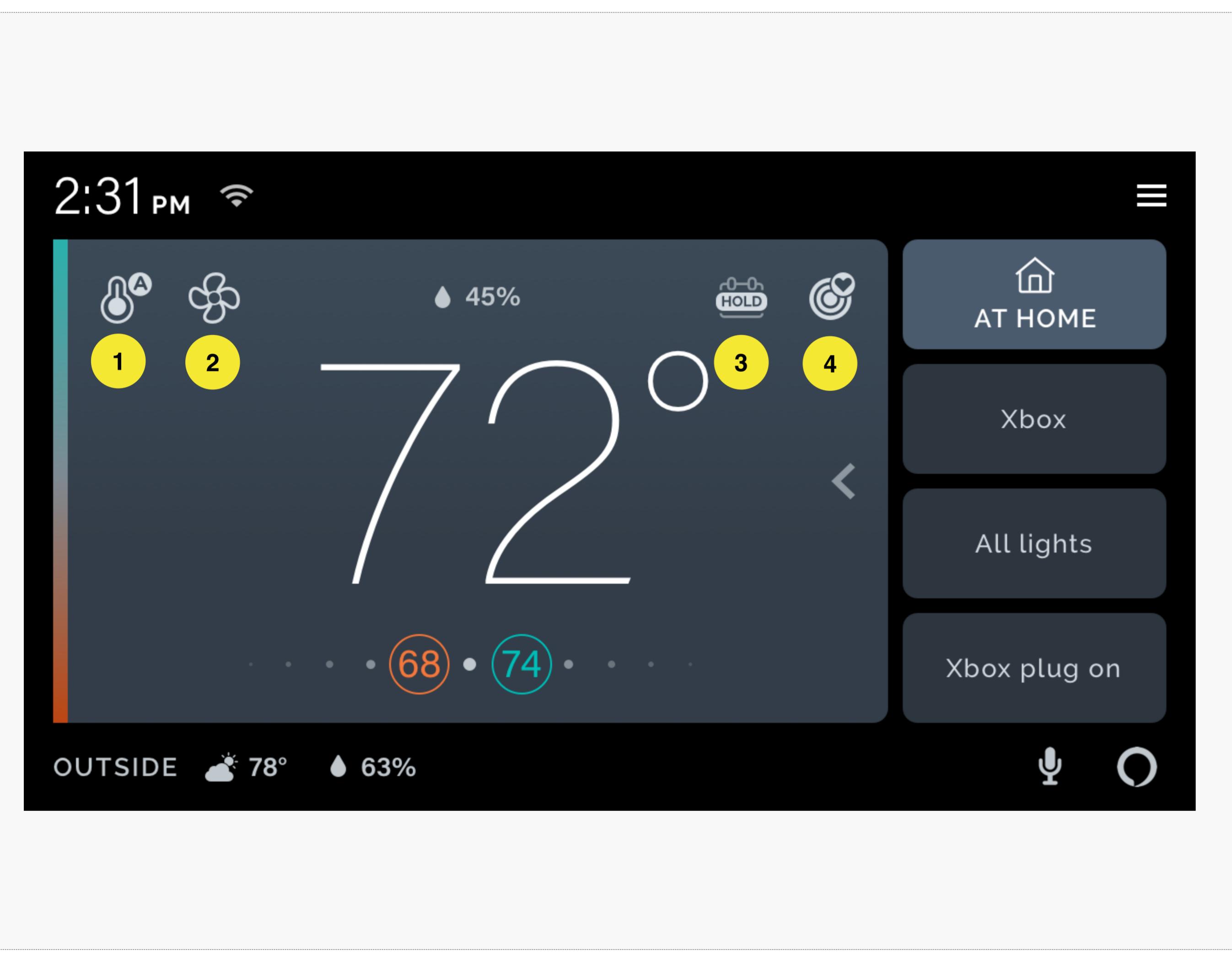
The user can remove their finger from the slider briefly and then place their finger on the slider again and resume adjustment, so long as the Adjustment Timer has not expired. Once the Adjustment Timer expires, the screen exits set point adjustment and the set point value is updated.

The range of the slider is fixed, with the previous set point reflected as the starting position on the slider and an adjustment range of +/- 10 degrees Fahrenheit or +/- 5 degrees Celsius. This range is reset between interactions with the slider if the Adjustment Timer expires but the user has not left the HVAC Controls screen.

If the user drags the slider all the way to the left or right, the set point continues to reduce or increase at a rate of 2 increments per second. This in effect changes the range of the slider by the same amount, so the user can adjust up or down as desired by moving their finger along the normal slider range.

In auto mode, when one of the set points is dragged to a setting that would conflict with the other set point, the other set point is automatically moved to maintain an appropriate span.

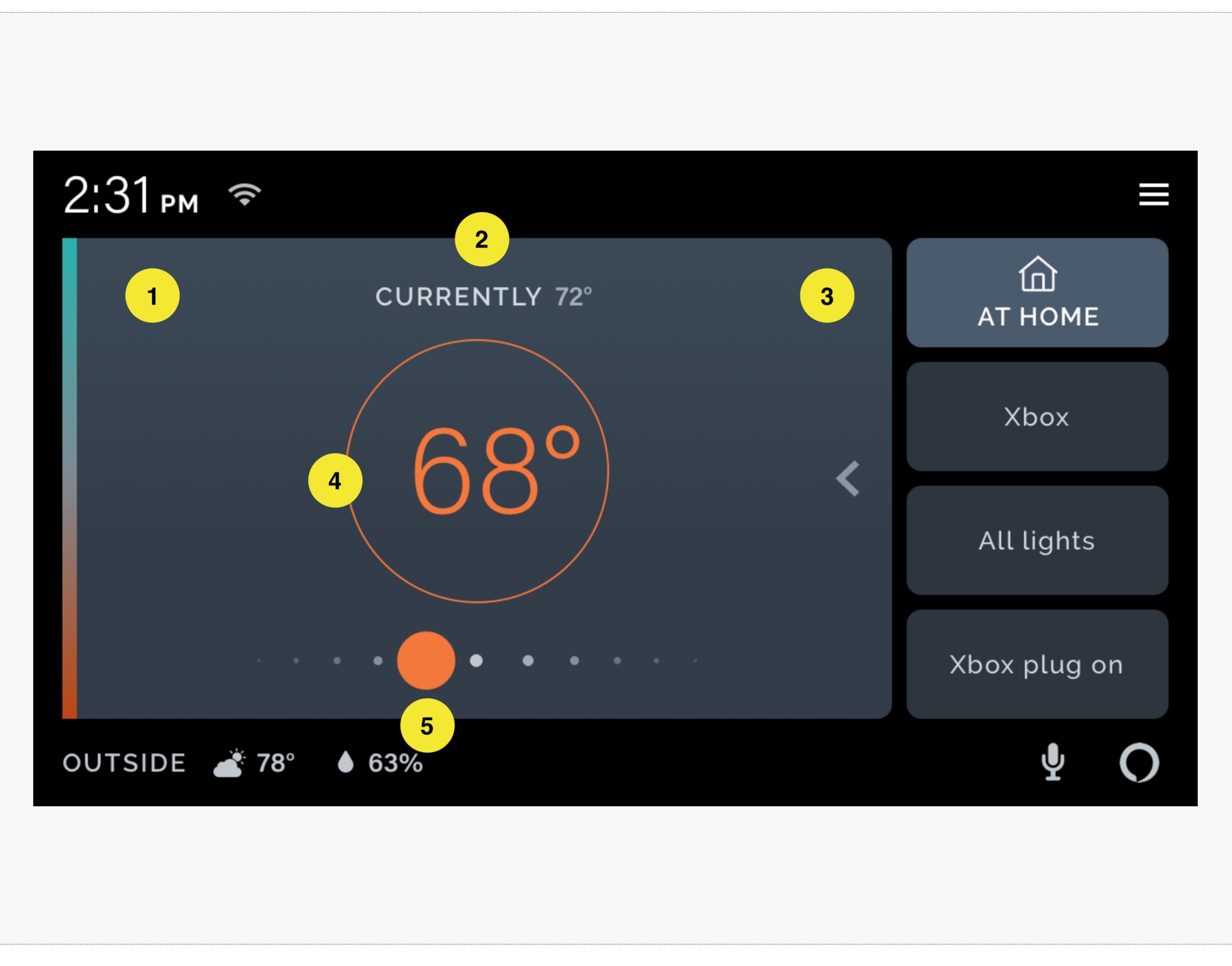
T2.6 - Temperature Panel - Thermostat Controls (Auto Mode)



This screen is displayed when a user taps the temperature area, as long as they have not actually tapped and held their finger on one of the set points (i.e. started a drag interaction).

- 1 The mode indicator icon displays the current HVAC mode. This can be tapped to display the mode selector dialog - see T2.13 - Temperature Panel - Mode Adjustment.
- 2 The fan indicator displays the current fan setting. This can be tapped to display the fan selector dialog - see T2.14 - Temperature Panel - Fan Adjustment.
- 3 The schedule indicator displays the current schedule state. This can be tapped to display the schedule selector dialog - see T2.15 - Temperature Panel - Schedule Adjustment.
- 4 The Sweet Spot indicator displays the current Sweet Spot setting. This can be tapped to display the Sweet Spot selector dialog - see T2.16 - Temperature Panel - Sweet Spot Adjustment. If the sweet Spot Icon is tapped and no remote temperature sensors have been added a promotional marketing dialogue is displayed - See T2.17 - Temperature Panel - Sweet Spot Adjustment (no sensors).

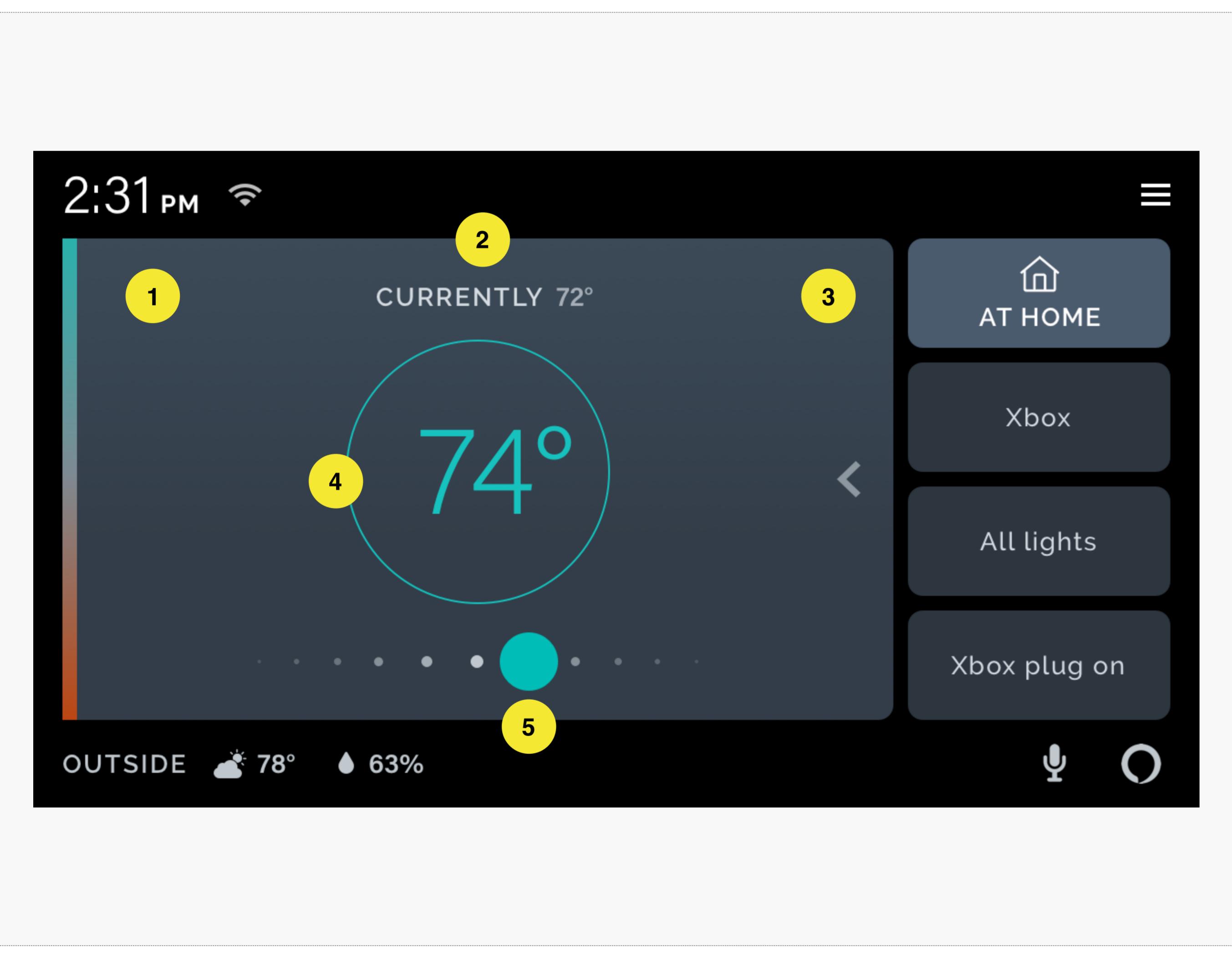
T2.7 - Temperature Panel - Set Point Adjustment (Auto Mode / Heating)



This screen is displayed when a user taps and holds their finger on one of the set points (i.e. started a drag interaction).

- 1 The mode and fan icons fade out for the duration of the set point adjustment.
- 2 The indoor humidity is replaced with the current indoor temperature for the duration of the set point adjustment.
- 3 The schedule and Sweet Spot icons fade out for the duration of the set point adjustment.
- 4 The central indicator shows the value the user is adjusting. This becomes the set point once the user finishes adjusting the temperature and the thermostat enters temporary hold.
- 5 The slider functions as described in T2.5 - Temperature Panel - Slider Functionality.

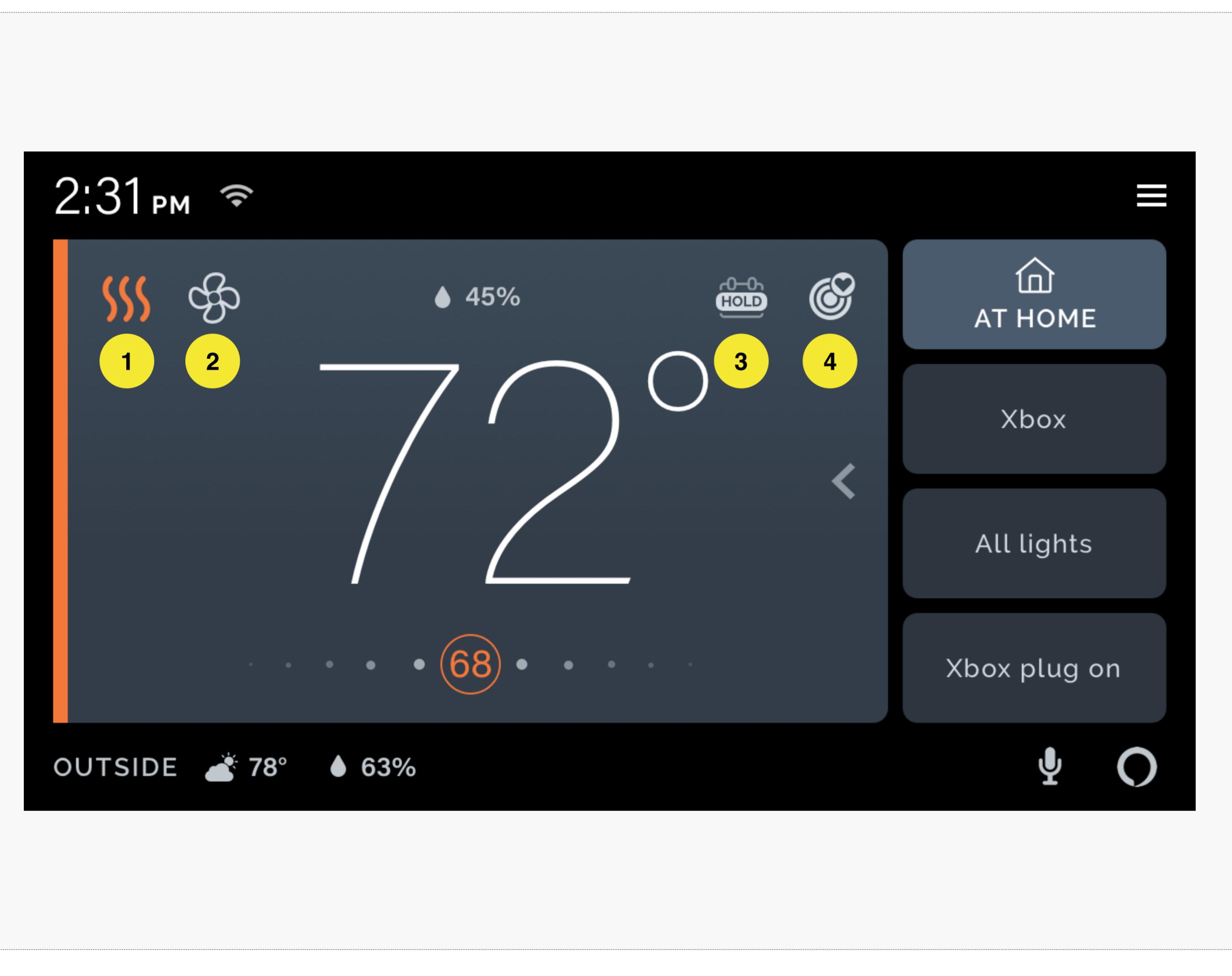
T2.8 - Temperature Panel - Set Point Adjustment (Auto Mode / Cooling)



This screen is displayed when a user taps and holds their finger on one of the set points (i.e. started a drag interaction).

- 1 The mode and fan icons fade out for the duration of the set point adjustment.
- 2 The indoor humidity is replaced with the current indoor temperature for the duration of the set point adjustment.
- 3 The schedule and Sweet Spot icons fade out for the duration of the set point adjustment.
- 4 The central indicator shows the value the user is adjusting. This becomes the set point once the user finishes adjusting the temperature and the thermostat enters temporary hold.
- 5 The slider functions as described in T2.5 - Temperature Panel - Slider Functionality.

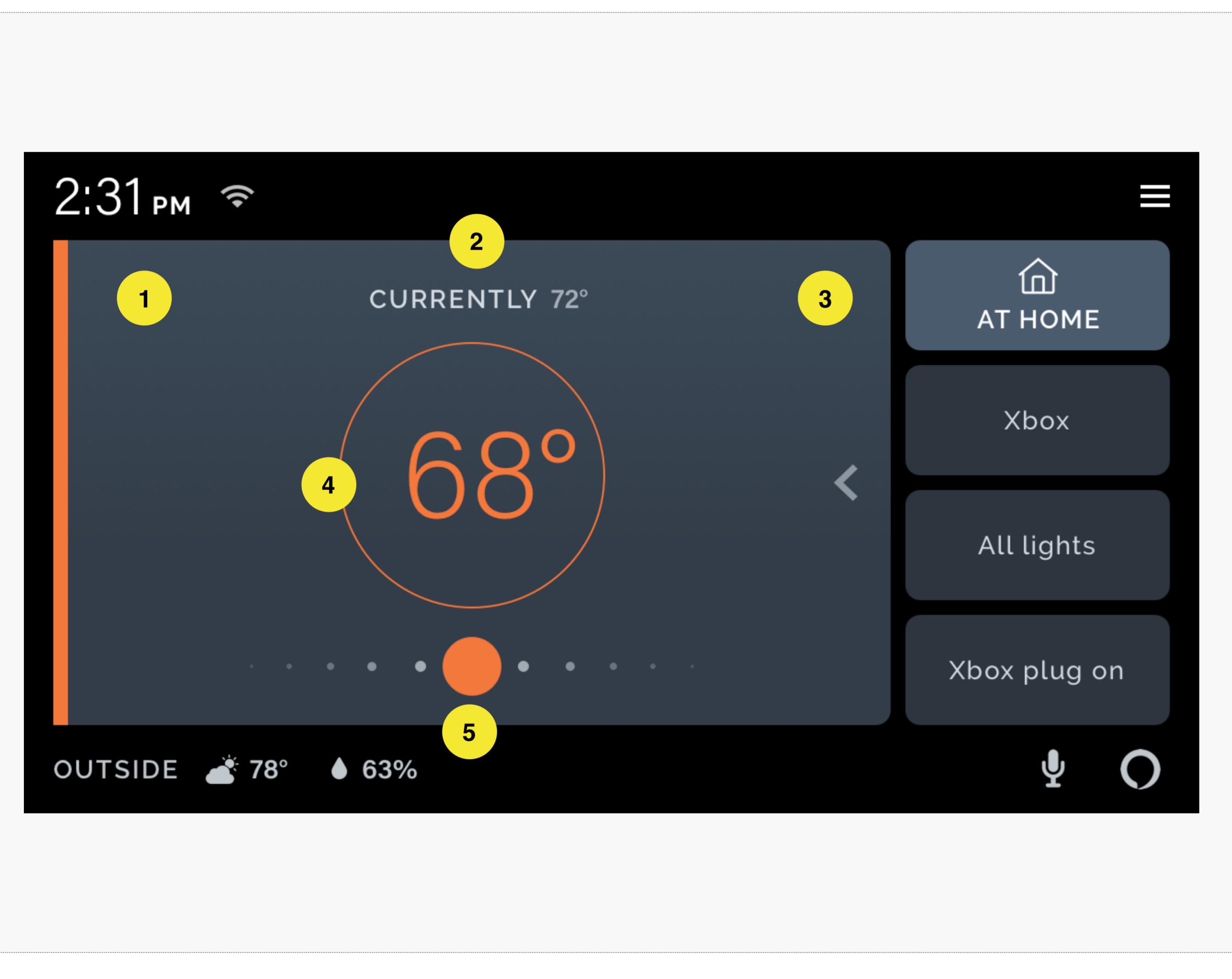
T2.9 - Temperature Panel - Thermostat Controls (Heating Mode)



This screen is displayed when a user taps the temperature area, as long as they have not actually tapped and held their finger on one of the set points (i.e. started a drag interaction).

- 1 The mode indicator icon displays the current HVAC mode. This can be tapped to display the mode selector dialog - see T2.13 - Temperature Panel - Mode Adjustment.
- 2 The fan indicator displays the current fan setting. This can be tapped to display the fan selector dialog - see T2.14 Temperature Panel - Fan Adjustment.
- 3 The schedule indicator displays the current schedule state. This can be tapped to display the schedule selector dialog - see T2.15 - Temperature Panel - Schedule Adjustment.
- 4 The Sweet Spot indicator displays the current Sweet Spot setting. This can be tapped to display the Sweet Spot selector dialog - see T2.16 - Temperature Panel - Sweet Spot Adjustment. If the sweet Spot Icon is tapped and no remote temperature sensors or additional thermostats have been added a promotional marketing dialogue is displayed - See T2.17 - Temperature Panel - Sweet Spot Adjustment (no sensors).

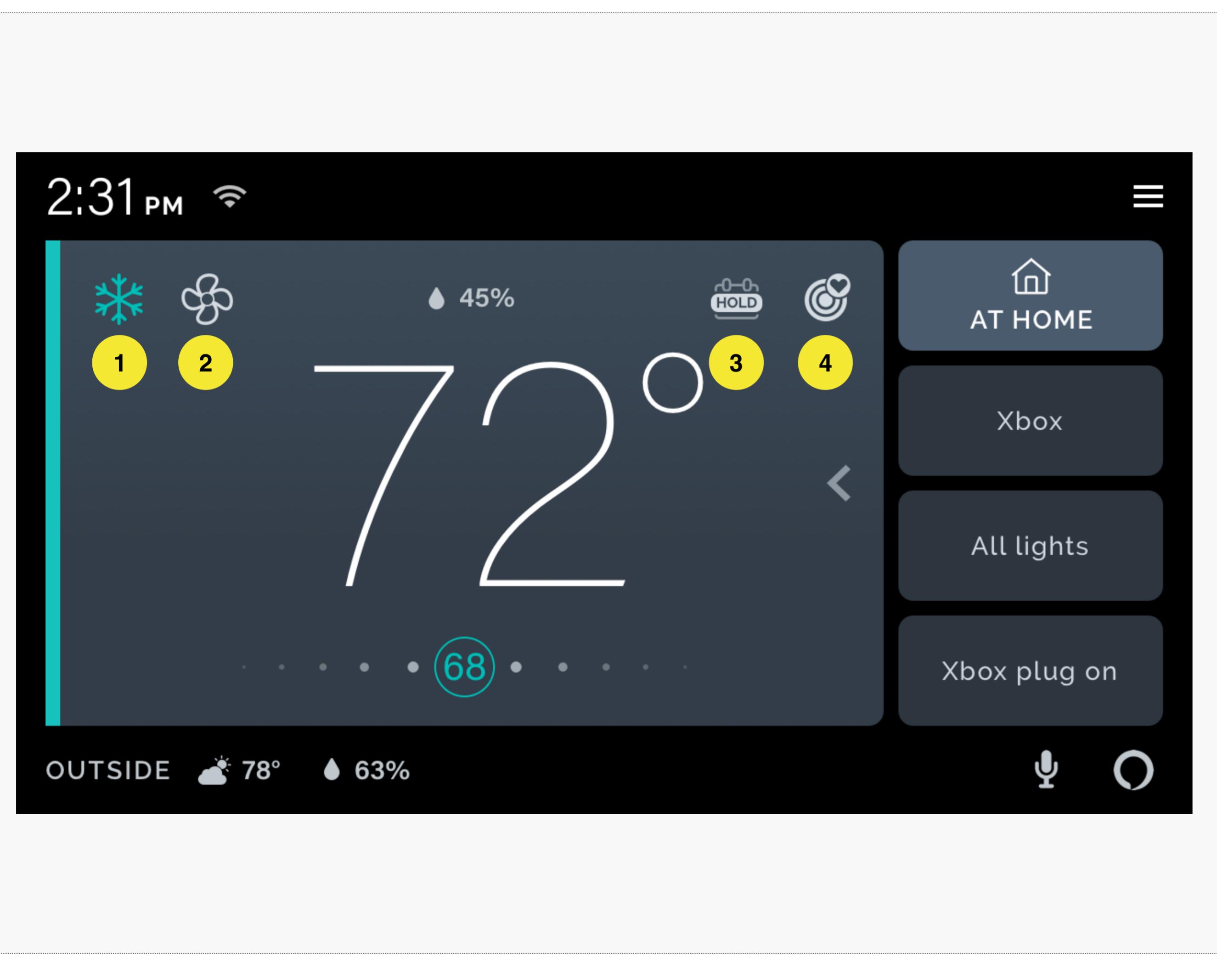
T2.10 - Temperature Panel - Set Point Adjustment (Heating Mode)



This screen is displayed when a user taps and holds their finger on the heating set point (i.e. started a drag interaction).

- 1 The mode and fan icons fade out for the duration of the set point adjustment.
- 2 The indoor humidity is replaced with the current indoor temperature for the duration of the set point adjustment.
- 3 The schedule and Sweet Spot icons fade out for the duration of the set point adjustment.
- 4 The central indicator shows the value the user is adjusting. This becomes the set point once the user finishes adjusting the temperature and the thermostat enters temporary hold.
- 5 The slider functions are described in T2.5 - Temperature Panel - Slider Functionality.

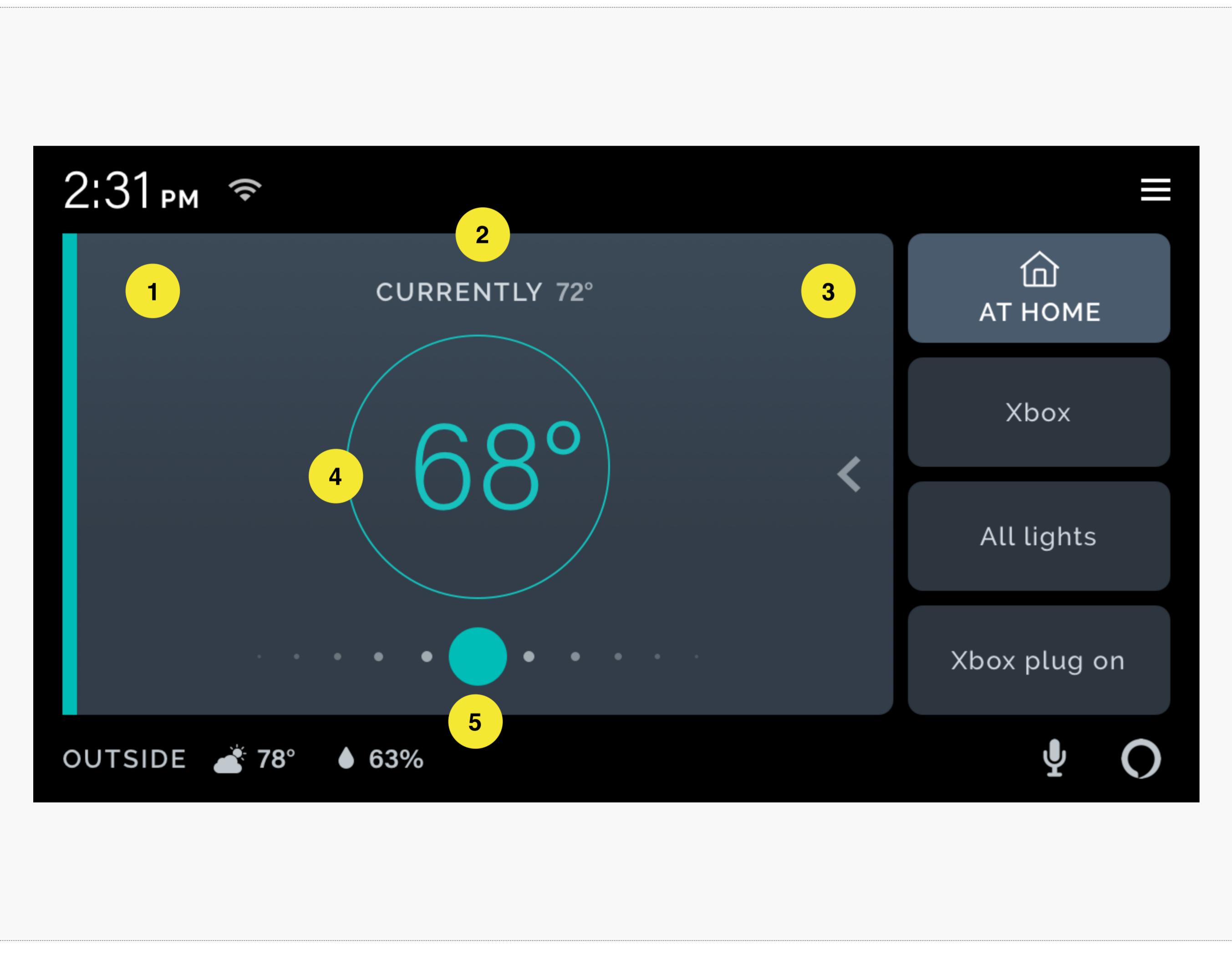
T2.11 - Temperature Panel - Thermostat Controls (Cooling Mode)



This screen is displayed when a user taps the temperature area, as long as they have not actually tapped and held their finger on one of the set points (i.e. started a drag interaction).

- 1 The mode indicator icon displays the current HVAC mode. This can be tapped to display the mode selector dialog - see T2.13 - Temperature Panel - Mode Adjustment.
- 2 The fan indicator displays the current fan setting. This can be tapped to display the fan selector dialog - see T2.14 Temperature Panel - Fan Adjustment.
- 3 The schedule indicator displays the current schedule state. This can be tapped to display the schedule selector dialog - see T2.15 - Temperature Panel - Schedule Adjustment.
- 4 The Sweet Spot indicator displays the current Sweet Spot setting. This can be tapped to display the Sweet Spot selector dialog - see T2.16 - Temperature Panel - Sweet Spot Adjustment. If the sweet Spot Icon is tapped and no remote temperature sensors or additional thermostats have been added a promotional marketing dialogue is displayed - See T10.3 - Sweet Spots - Empty

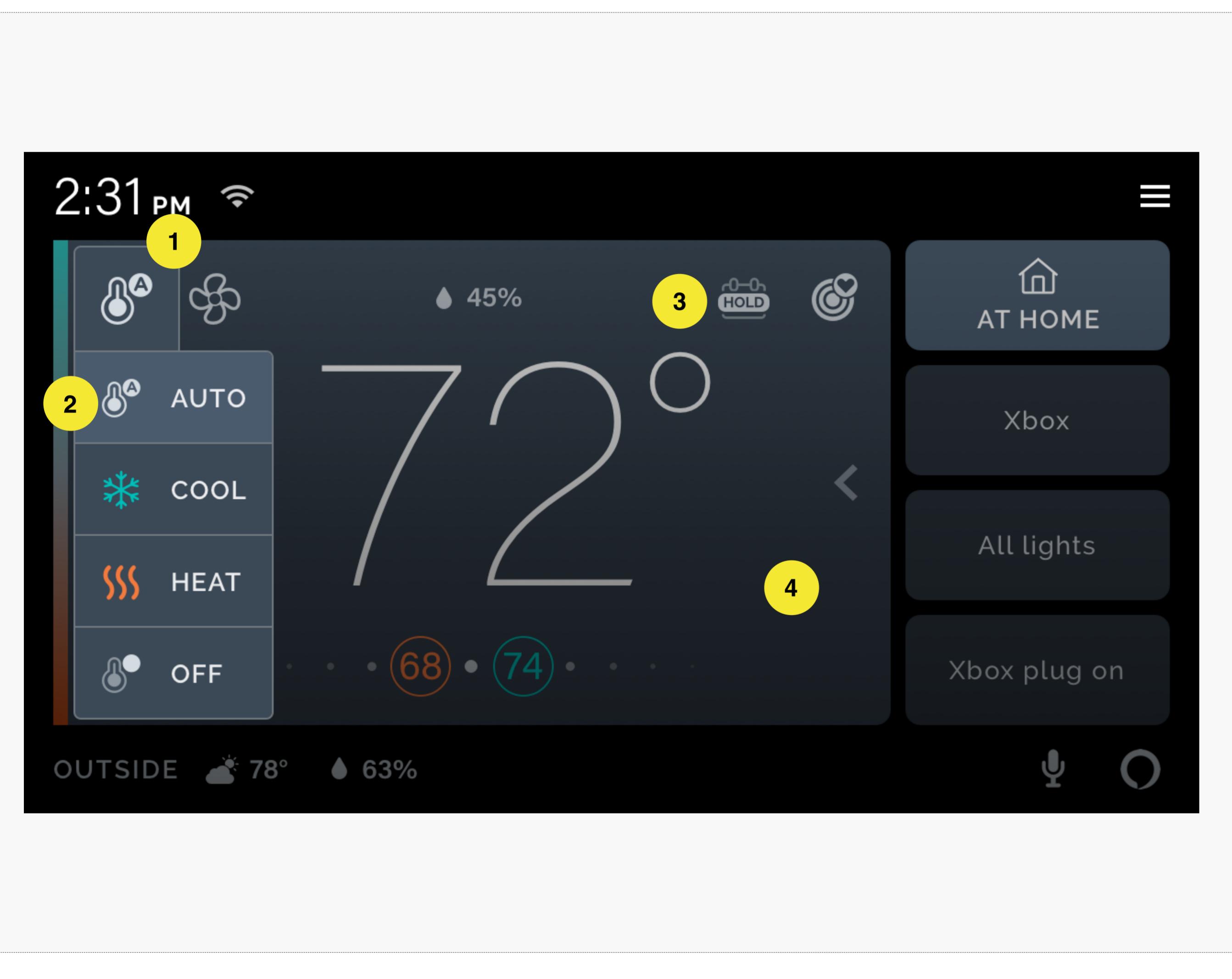
T2.12 - Temperature Panel - Set Point Adjustment (Cooling Mode)



This screen is displayed when a user taps and holds their finger on the cooling set point (i.e. started a drag interaction).

- 1 The mode and fan icons fade out for the duration of the set point adjustment.
- 2 The indoor humidity is replaced with the current indoor temperature for the duration of the set point adjustment.
- 3 The schedule and Sweet Spot icons fade out for the duration of the set point adjustment.
- 4 The central indicator shows the value the user is adjusting. This becomes the set point once the user finishes adjusting the temperature and the thermostat enters temporary hold.
- 5 The slider functions as described in T2.5 - Temperature Panel - Slider Functionality.

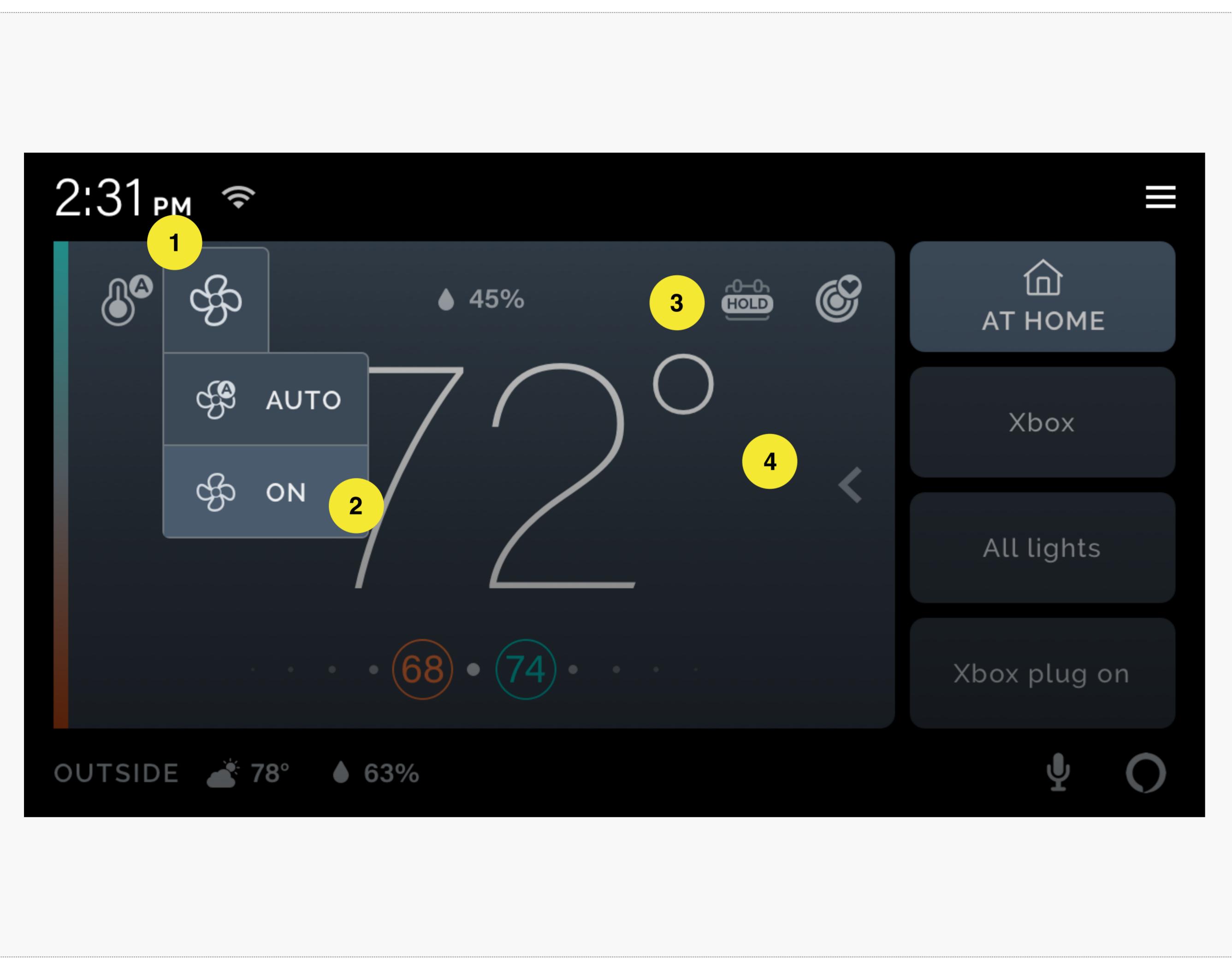
T2.13 - Temperature Panel - Mode Adjustment



This page shows the thermostat controls screen, with the mode selection interface illustrated.

- 1 When the mode indicator icon is tapped, a selection dialog is displayed immediately below. The rest of the screen is darkened slightly. If the user taps the mode icon again, the dialog closes.
- 2 The available modes are displayed in the dialogue. The current mode is emphasised with a different colour background.
- 3 The other settings icons remain visible and can be tapped. Once tapped the open selection dialog closes and the dialogue for the settings icon that was tapped is displayed / opened.
- 4 Tapping elsewhere on the screen cancels the selection. Selection also cancels when the adjustment timer runs out.

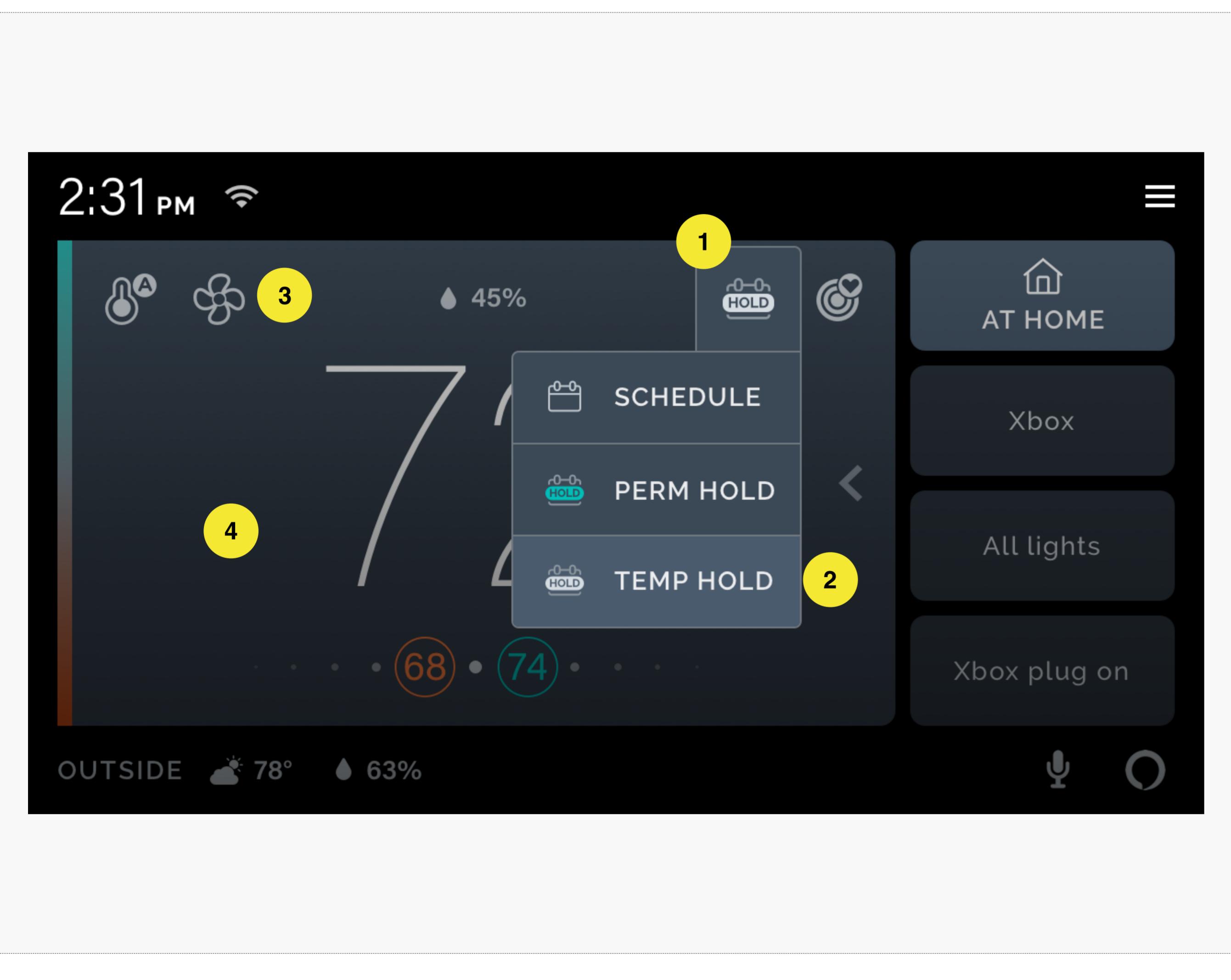
T2.14 - Temperature Panel - Fan Adjustment



This page shows the thermostat controls screen, with the fan selection interface illustrated.

- 1 When the fan indicator icon is tapped, a selection dialog is displayed immediately below. The rest of the screen is darkened slightly. If the user taps the mode icon again, the dialog closes.
- 2 The available modes are displayed in the dialogue. The current mode is emphasised with a different colour background.
- 3 The other settings icons remain visible and can be tapped. Once tapped the open selection dialog closes and the dialogue for the settings icon that was tapped is displayed / opened.
- 4 Tapping elsewhere on the screen cancels the selection. Selection also cancels when the adjustment timer runs out.

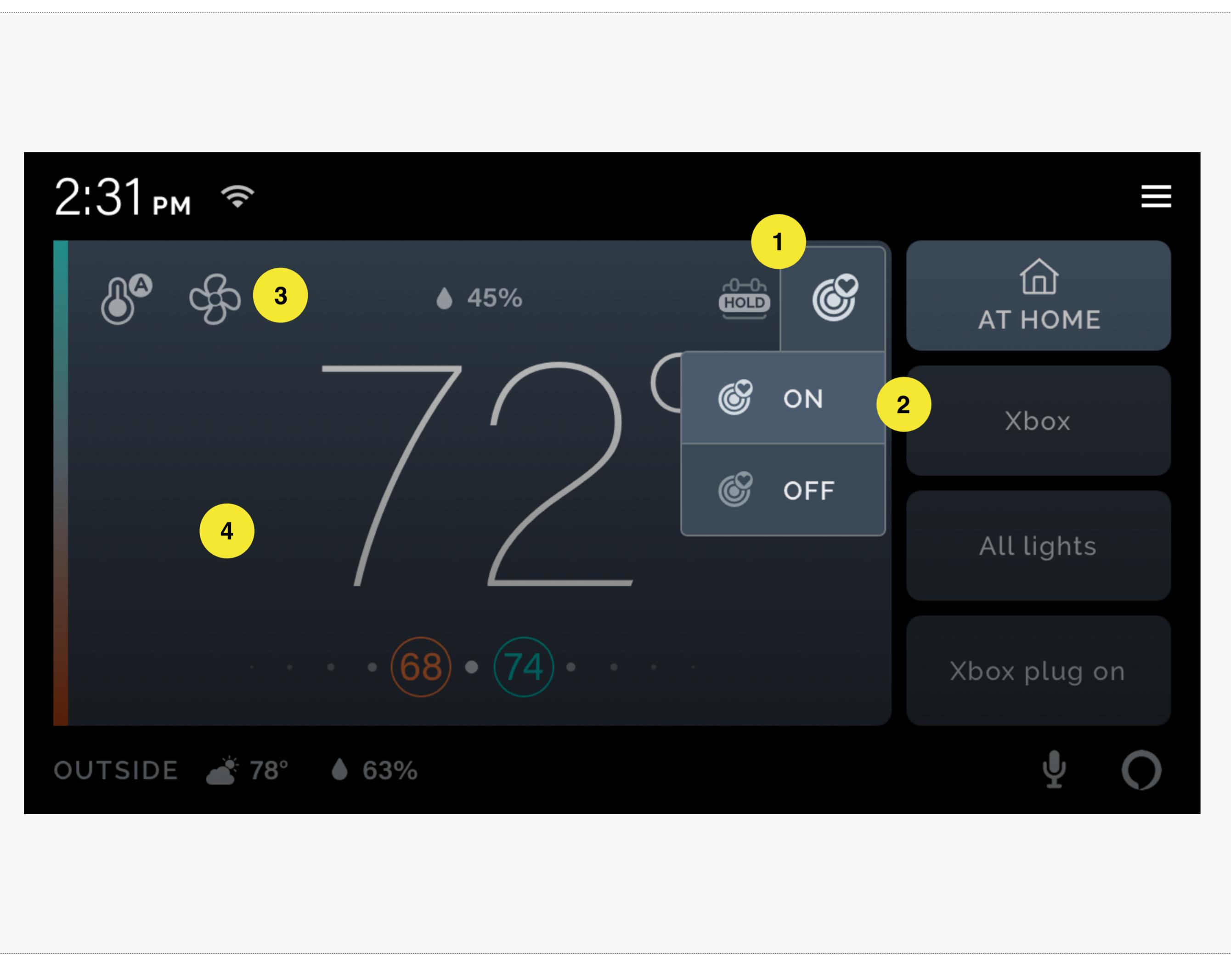
T2.15 - Temperature Panel - Schedule Adjustment



This page shows the thermostat controls screen, with the schedule selection interface illustrated.

- 1 When the schedule indicator icon is tapped, a selection dialogue is displayed immediately below. The rest of the screen is darkened slightly. If the user taps the mode icon again, the dialog closes.
- 2 The available modes are displayed in the dialogue. The current mode is emphasised with a different colour background.
- 3 The other settings icons remain visible and can be tapped. Once tapped the open selection dialog closes and the dialogue for the settings icon that was tapped is displayed / opened.
- 4 Tapping elsewhere on the screen cancels the selection. Selection also cancels when the adjustment timer runs out.

T2.16 - Temperature Panel - Sweet Spot Adjustment

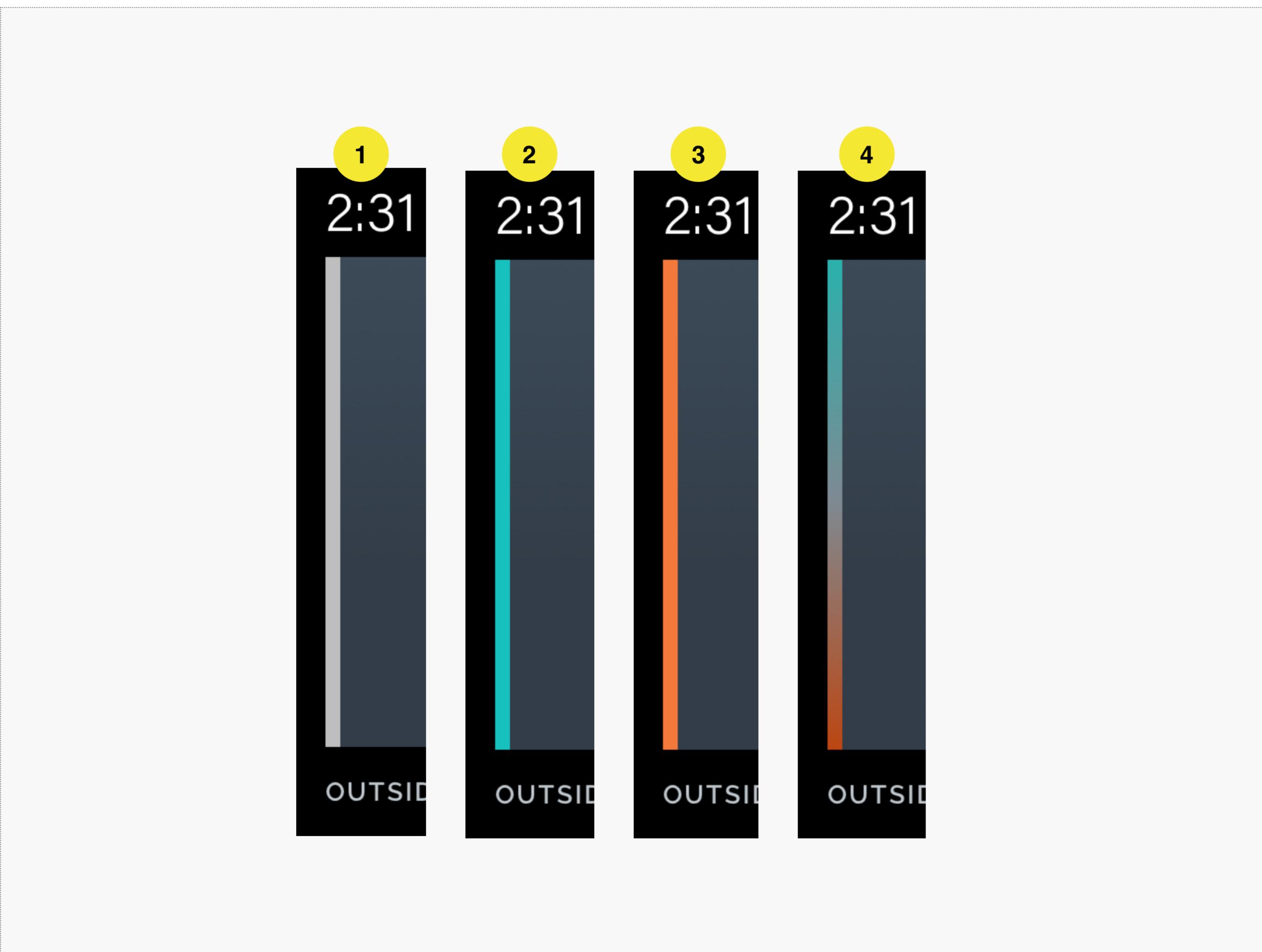


This page shows the thermostat controls screen, with the Sweet Spot selection interface illustrated.

- 1 When the Sweet Spot icon is tapped, a selection dialog is displayed immediately below the mode icon. The rest of the screen is darkened slightly. If the user taps the mode icon again, the dialog closes.
- 2 The available modes are displayed in the dialogue. The current mode is emphasised with a different colour background.
- 3 The other settings icons remain visible and can be tapped. Once tapped the open selection dialog closes and the dialogue for the settings icon that was tapped is displayed / opened.
- 4 Tapping elsewhere on the screen cancels the selection. Selection also cancels when the adjustment timer runs out.

NOTE: If the sweet Spot Icon is tapped and no remote temperature sensors or additional thermostats have been added a promotional marketing dialogue is displayed - See T10.3 - Sweet Spots Empty

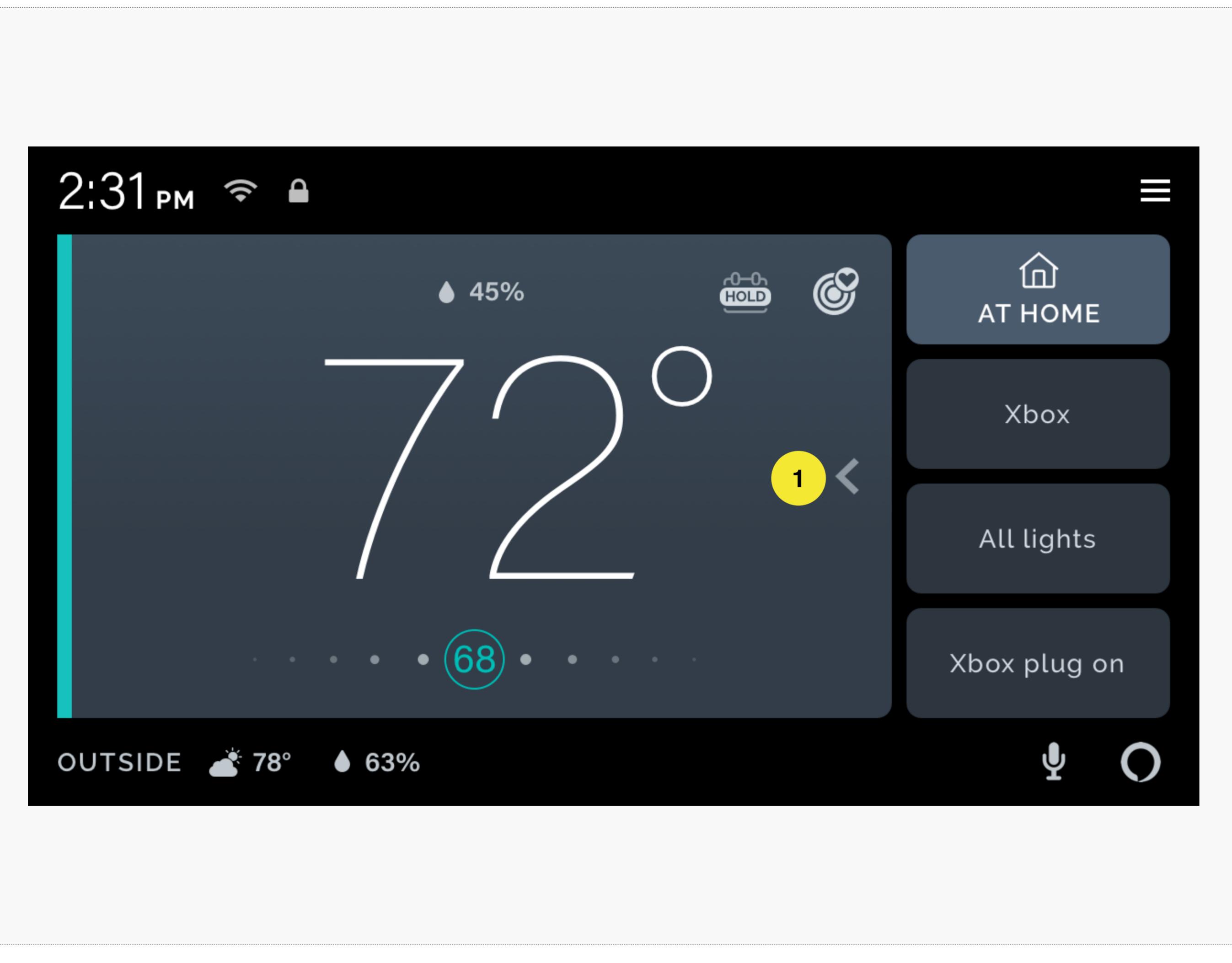
T2.17 - Temperature Panel - Thermostat Mode and State Indicators



This page describes the various modes of the mode and state indicator bar. These are cropped sections of the main screen showing the four HVAC mode and state indicator displays.

- 1 A static grey bar indicates that the thermostat is in "off" mode.
- 2 A static blue bar indicates that the thermostat is in "cooling" mode, though not actively cooling. When the thermostat is actively cooling (regardless of whether it is in cooling or auto mode), the blue bar becomes animated. The animation shows a ripple effect with the blue strip moving from top to bottom. The animation can be downloaded via the following URL: <https://www.dropbox.com/sh/9pgofylcsinb9l/AACQjLZiOtJ4v6xtUrGGzM5Pa?dl=0>
- 3 A static orange bar indicates that the thermostat is in "heating" mode, though not actively heating. When the thermostat is actively heating (regardless of whether it is in heating or auto mode), the orange bar becomes animated. The animation shows a ripple effect with the orange strip moving from bottom to top. The animation can be downloaded via the following URL: <https://www.dropbox.com/sh/9pgofylcsinb9l/AACQjLZiOtJ4v6xtUrGGzM5Pa?dl=0>
- 4 A static blue / orange bar indicates that the thermostat is in auto mode, though not actively cooling or heating. When in auto mode and the thermostat is actively cooling it displays an animated blue bar. When in auto mode and the thermostat is actively heating it displays an animated orange bar.

T3.0 - Smart Panel - Drawer Closed - Full



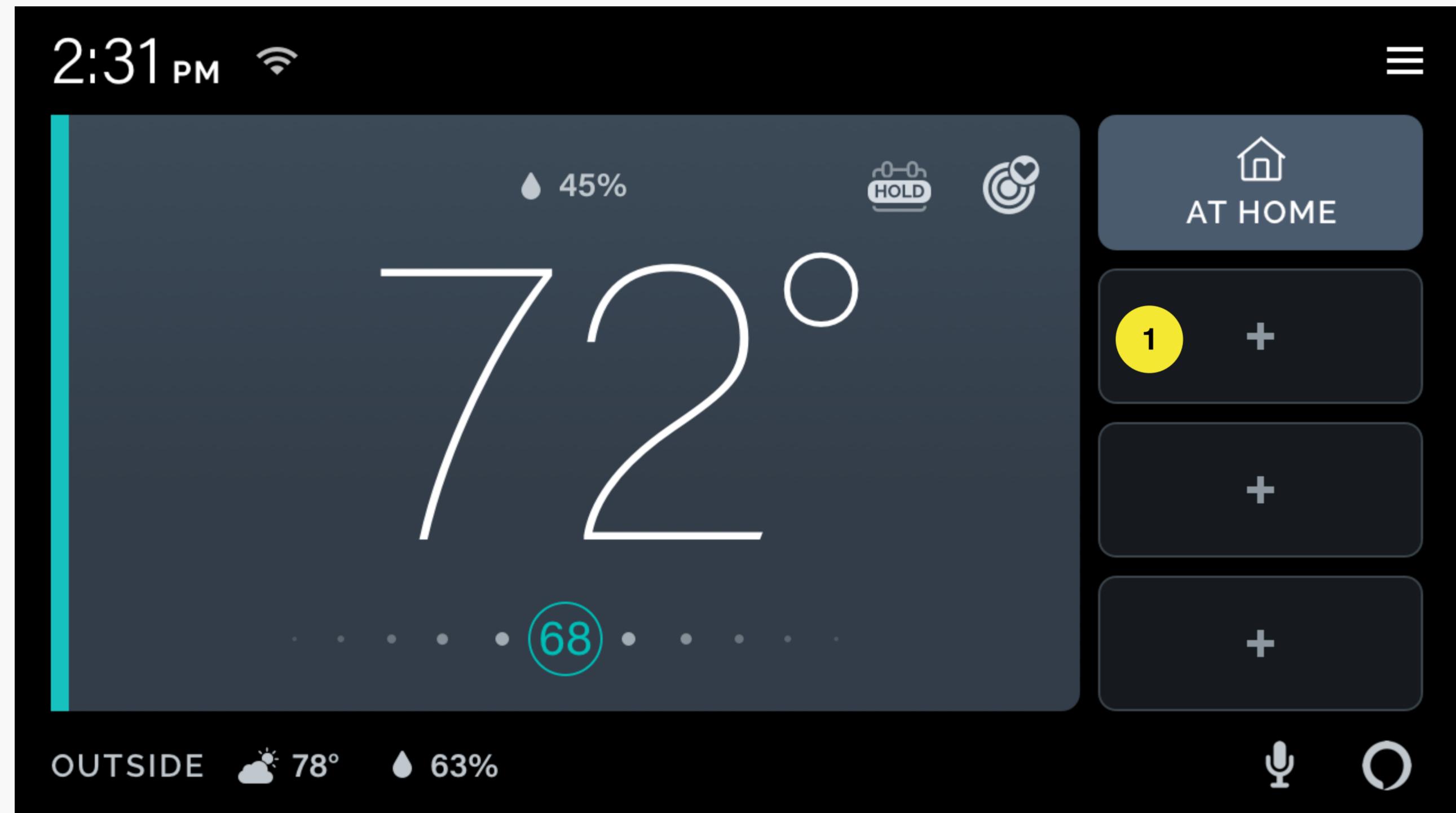
This is the default view of the main screen of the thermostat when the smart home panel drawer is closed.

1

When the chevron / caret icon is tapped the drawer automatically expands to expose an additional column of smart home controls. See T3.2 - Smart Panel - Drawer Open - Full

NOTE: The drawer can also be opened from the thermostat adjustment screen.

T3.1 - Smart Panel - Drawer Closed - Empty



This is the default view of the main screen of the thermostat when the smart home panel drawer is closed and no "House Rules" have been added.

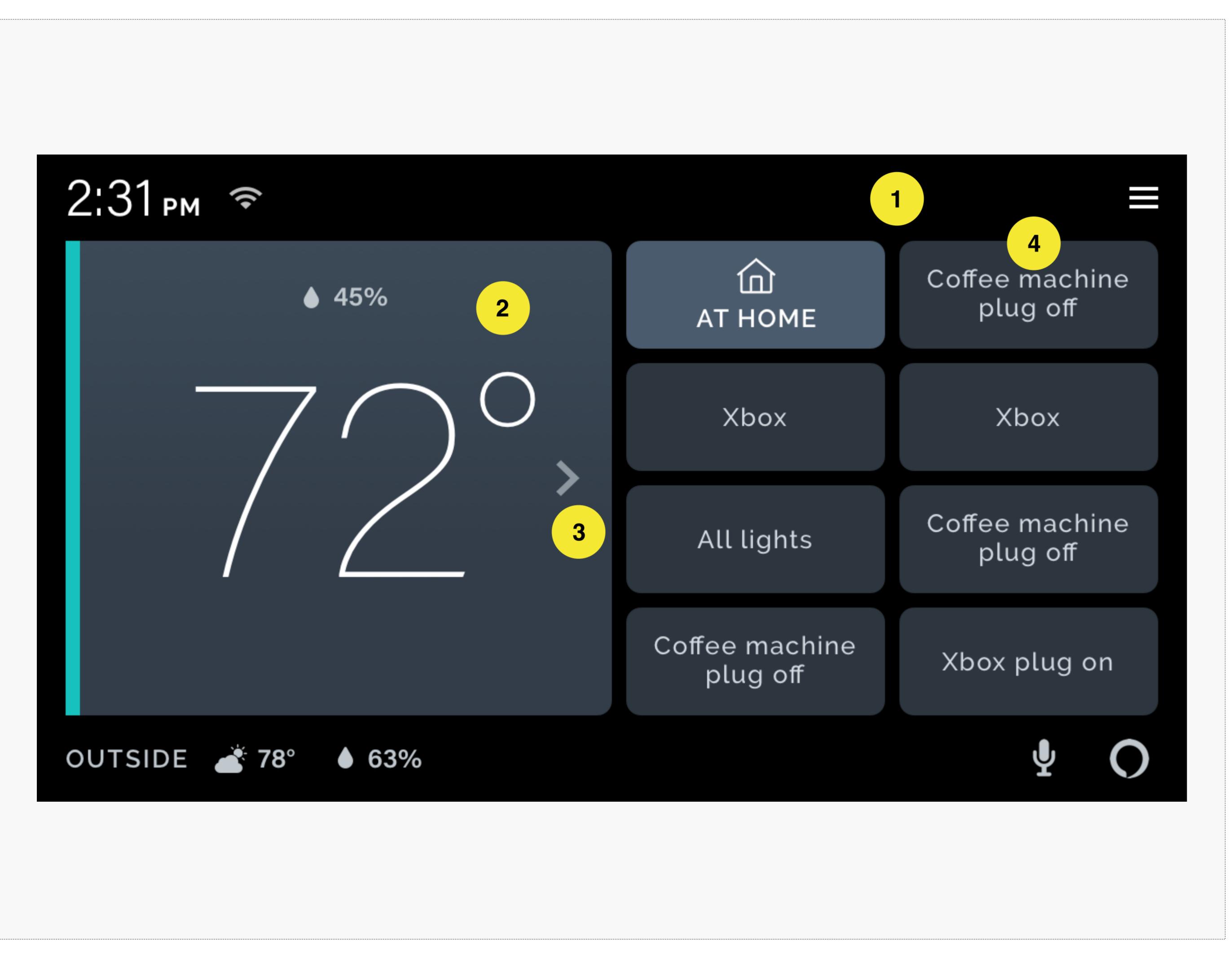
1

Users can add a total of seven manually-activated "House Rules" to their thermostat. Available "House Rule" slots are indicated by a rectangular button that contains an "add" icon. When tapped this triggers the display of the "Adding a House Rule" dialogue. See T3.6 - Smart Panel - Adding a House Rule

NOTE: The option to open the drawer is only possible when three or more "House Rules" have been added to the thermostat. When two or less "House Rules" have been added no chevron / caret icon is displayed.

House Rules can only be added to and removed from the thermostat via the companion app.

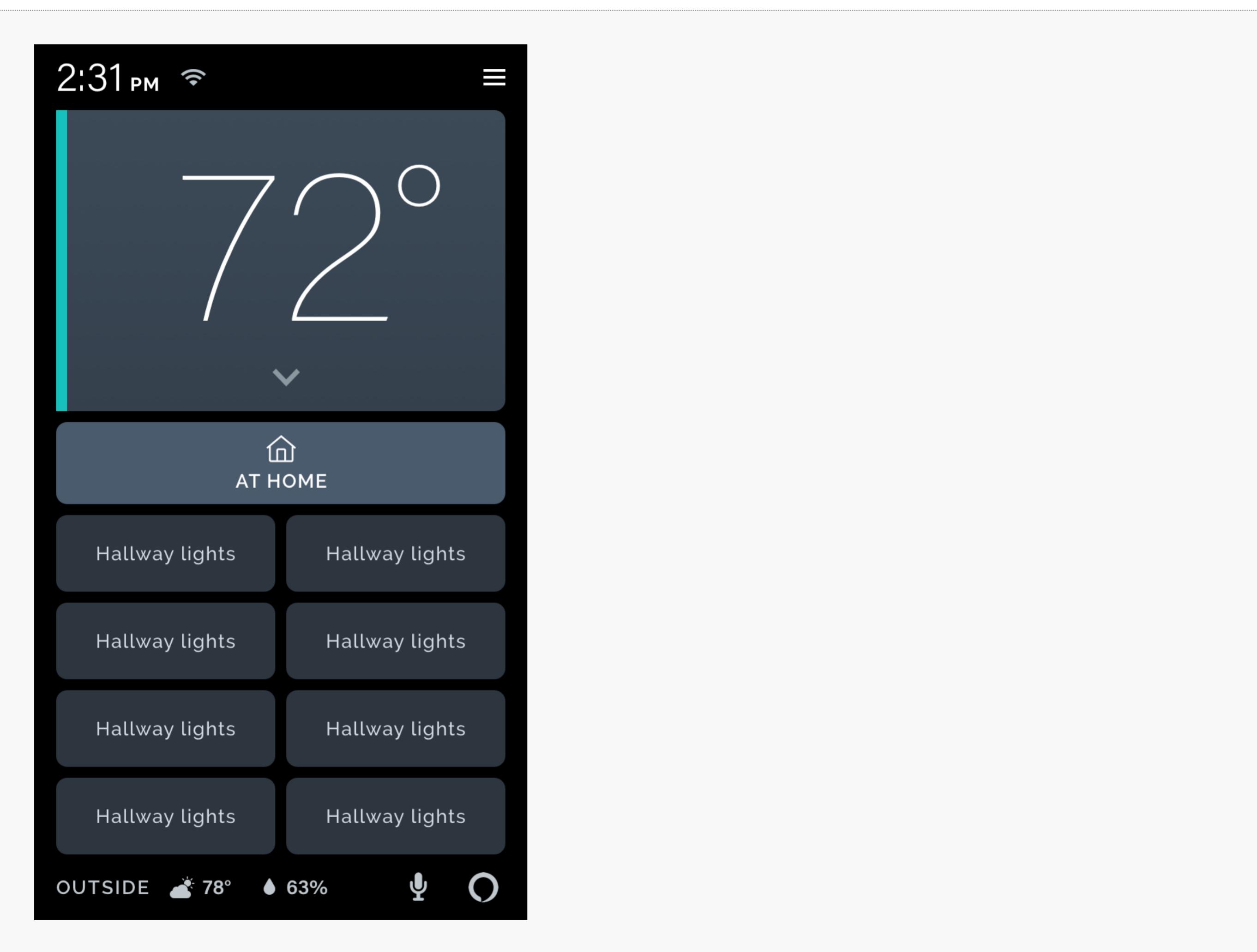
T3.2 - Smart Panel - Drawer Open - Full



This is the default view of the main screen of the thermostat when the smart home panel drawer is opened.

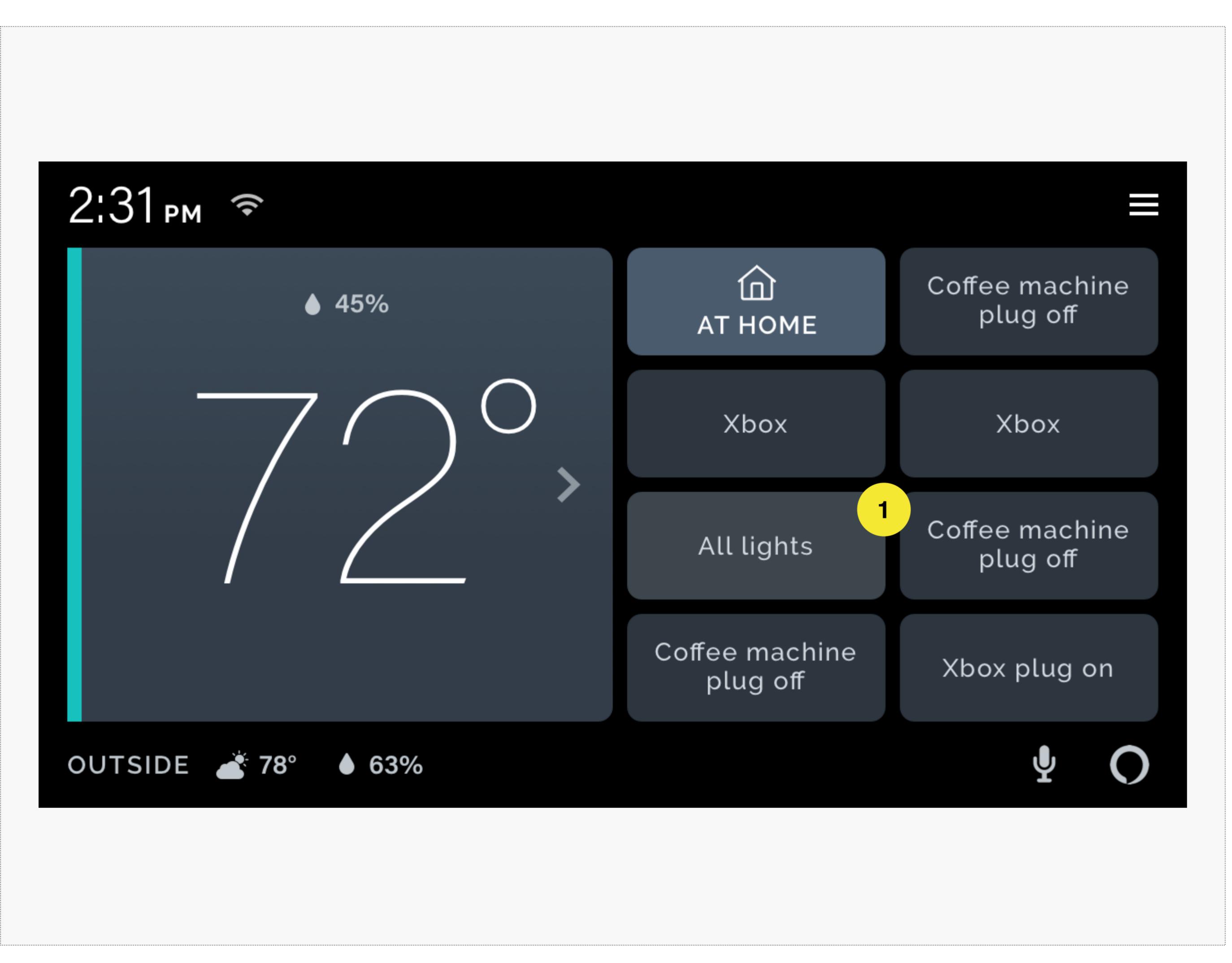
- 1 The smart home panel occupies of 1/2 of the thermostat screen when the drawer is opened fully.
- 2 When the drawer opens the temperature display minimises to fit the reduced-sized temperature display panel.
- 3 The user can tap on the chevron / caret icon or anywhere on the temperature display panel to close the drawer again.
- 4 The drawer opens to reveal a new column of house rules on the right hand side. The left-side column remains the same as that which is displayed when the drawer is in a closed state.

T3.3 - Smart Panel - Drawer Open - Full - Portrait



This is the view of the main screen of the thermostat, in portrait view, when the smart home panel drawer is opened.

T3.4 - Smart Panel - Drawer Open - (all lights in tapped state)

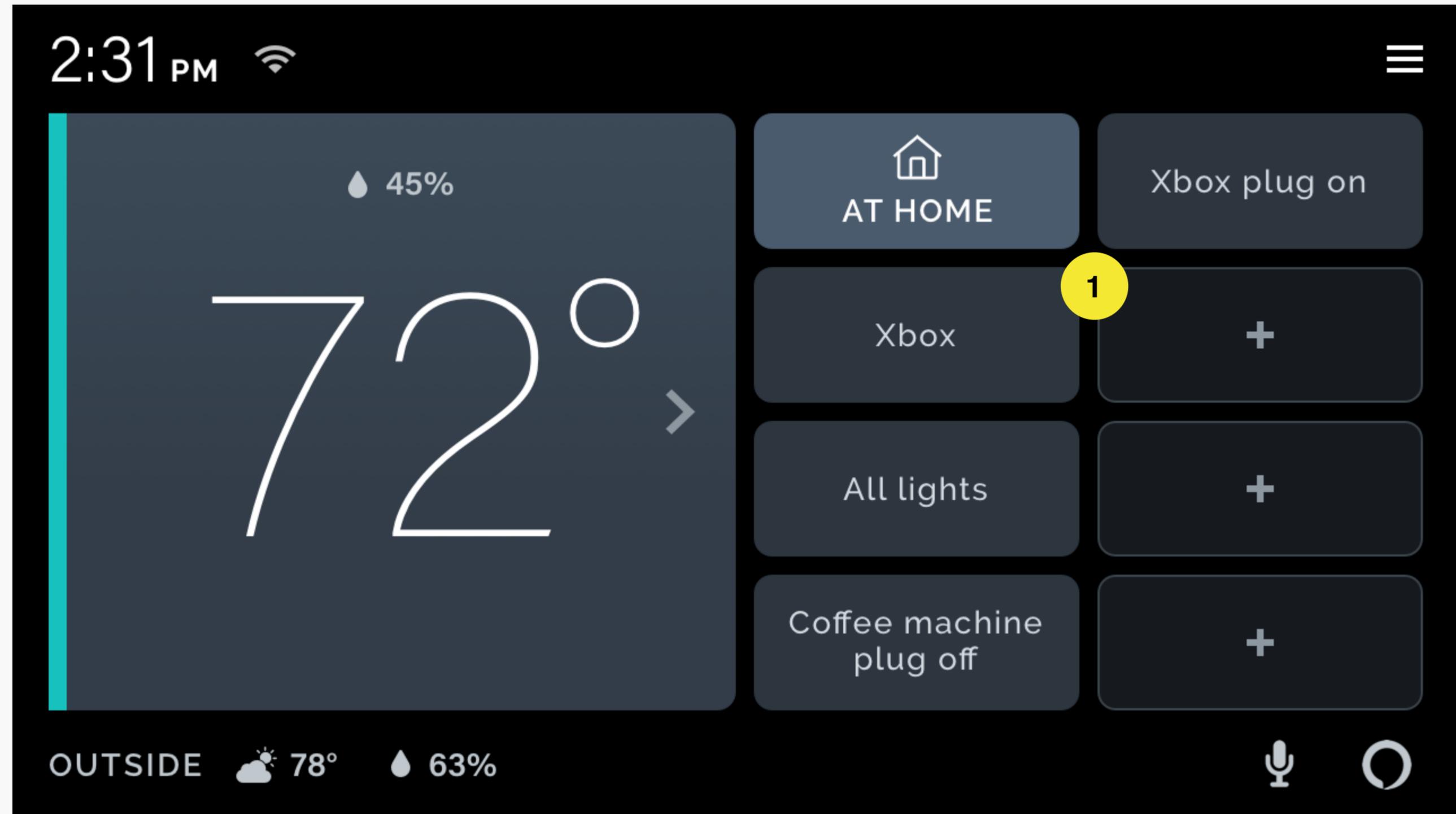


This is the default view of the main screen of the thermostat when the smart home panel drawer is opened.

1

The All lights button is displayed with a lighter shade of grey on touch. This tapped state colour applies when any house rules are tapped.

T3.5 - Smart Panel - Drawer Open - Partially Empty



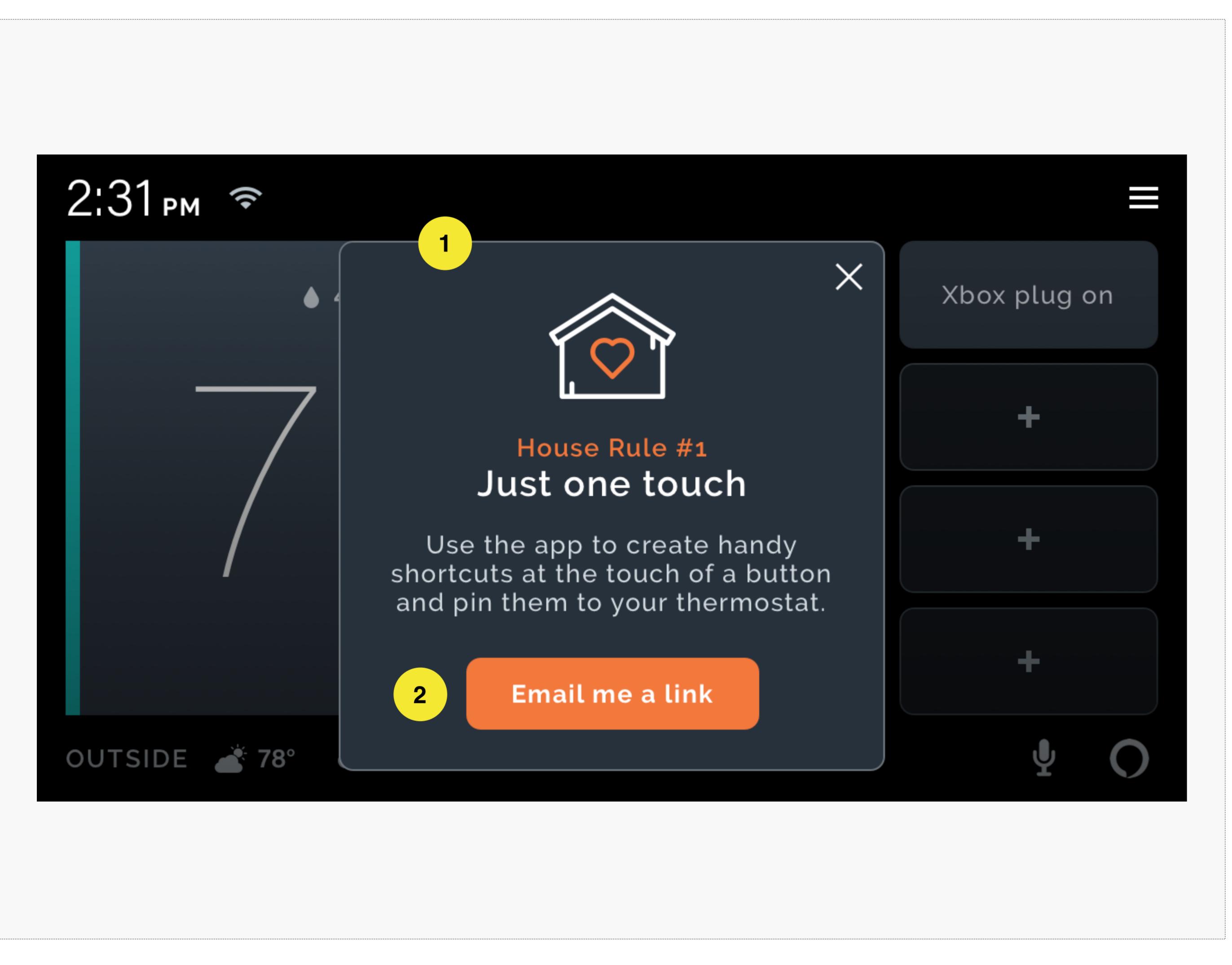
This is the default view of the main screen of the thermostat when the smart home panel drawer is opened and there are House Rule slots available.

1

Users can add a total of seven manually-activated "House Rules" to their thermostat. Available "House Rule" slots are indicated by a rectangular button that contains an "add" icon. When tapped this triggers the display of the "Adding a House Rule" dialogue.. See T3.6 - Smart Panel - Adding a House Rule

NOTE: House Rules can only be added to and removed from the thermostat via the habi companion app.

T3.6 - Smart Panel - Adding a House Rule

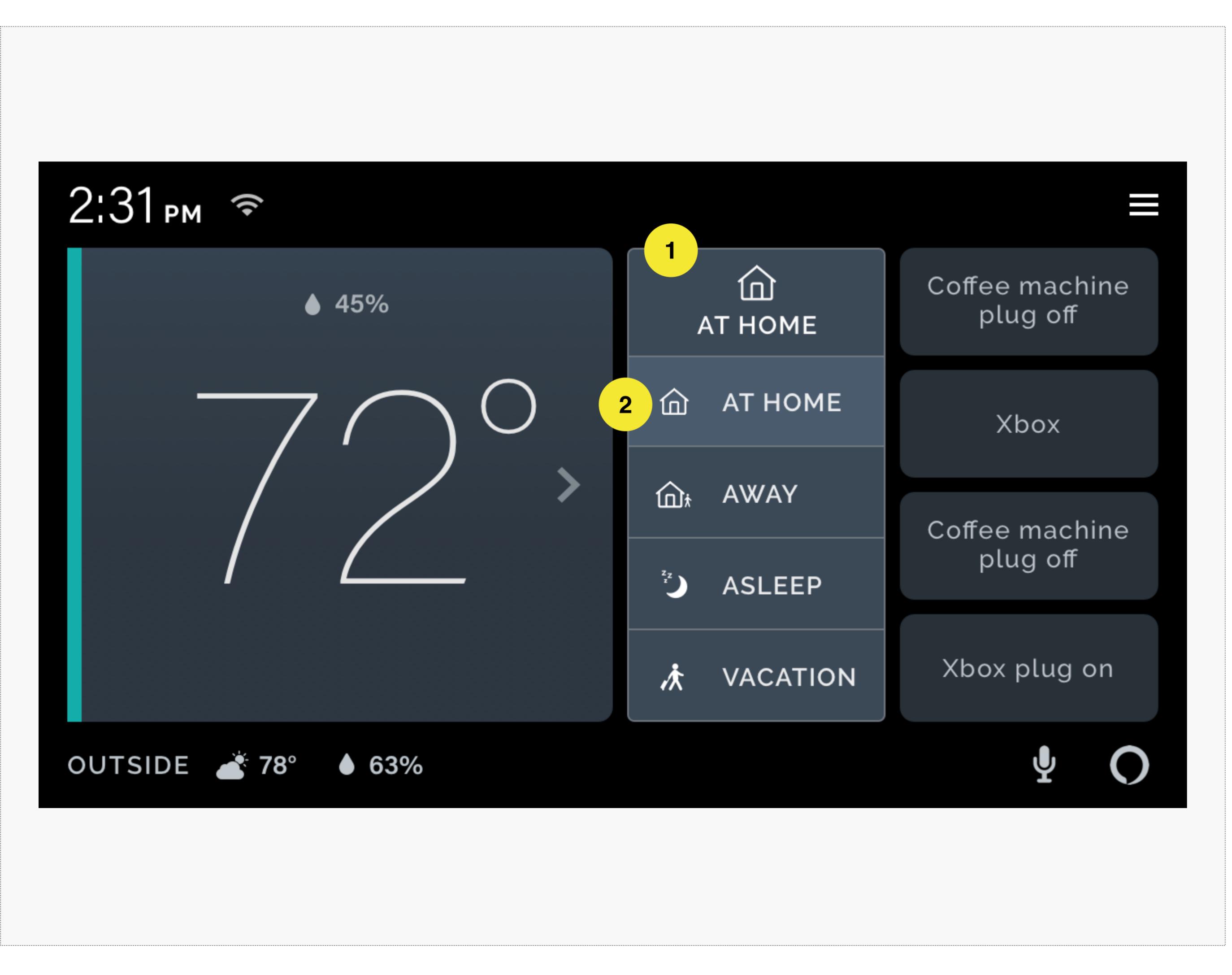


This is the dialogue box that is displayed when users tap on an available House Rule slot to add a House Rule.

1 House Rules cannot be added directly on the thermostat, rather the user is required to add these via the habi companion app. The dialogue box explains that the user must create a house rule on their app and pin them to their thermostat from there.

2 When users tap on the "Email me a link" button the system automatically sends them app download links for Android and iOS to their email address. The URL for the web app will also be shared.

T3.7 - Smart Panel - Change Status

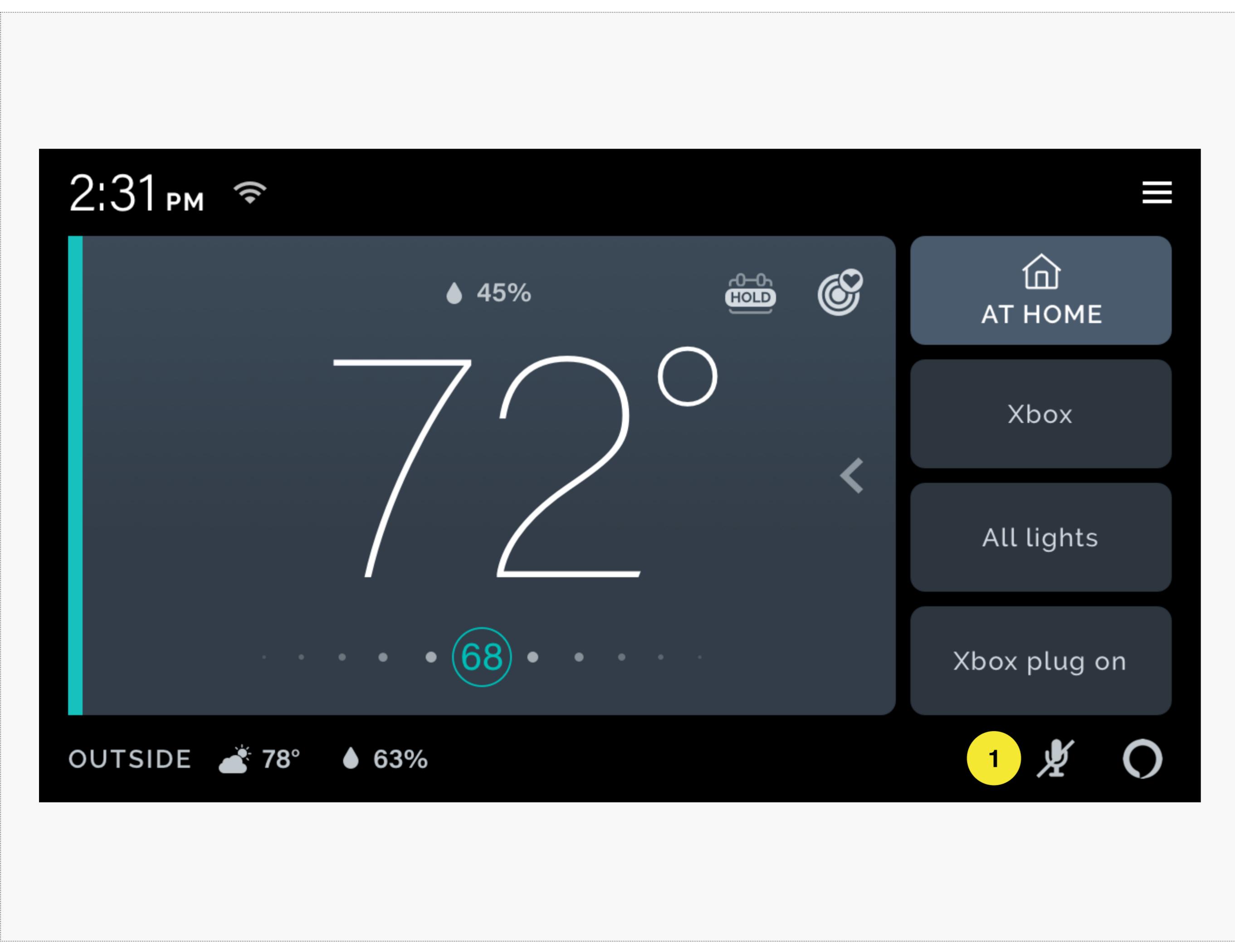


This is the default view of the main screen of the thermostat when the smart home panel drawer is opened and the Status button has been tapped. In this screen the current status of the thermostat is AT HOME.

- 1 When the user taps the Status button a selection dialogue is displayed below. The rest of the screen is darkened. If the user taps another status button the current status will be updated, the selection dialogue disappears and the screen resumes to default brightness.
- 2 The AT HOME button is displayed in a lighter shade of grey to indicate that it is the status that is currently active.

NOTE: Status can also be changed when the smart drawer is closed. In this instance the dialogue would be displayed below the status button in the right-hand column.

T4.0 - Voice Control - Mute



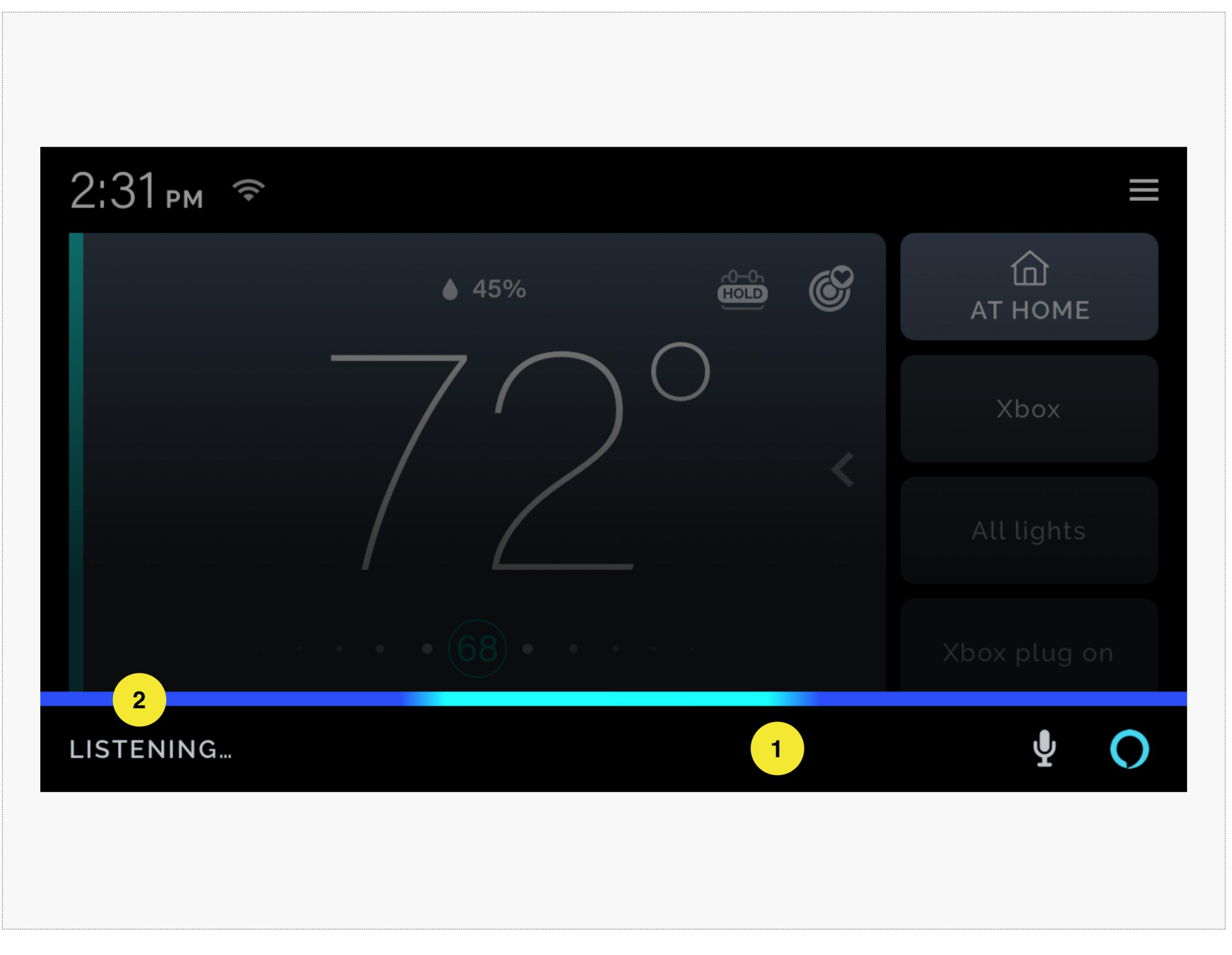
This shows the main screen of the thermostat when Alexa's listening status is deactivated.

1

The Alexa (or other voice control) listening status is indicated by a microphone icon. The icon can be tapped to activate and deactivate the listening status. When deactivated the microphone icon is displayed with a diagonal line through it.

NOTE: The drawer can also be opened from the thermostat adjustment screen.

T4.1 - Voice Control - Listening

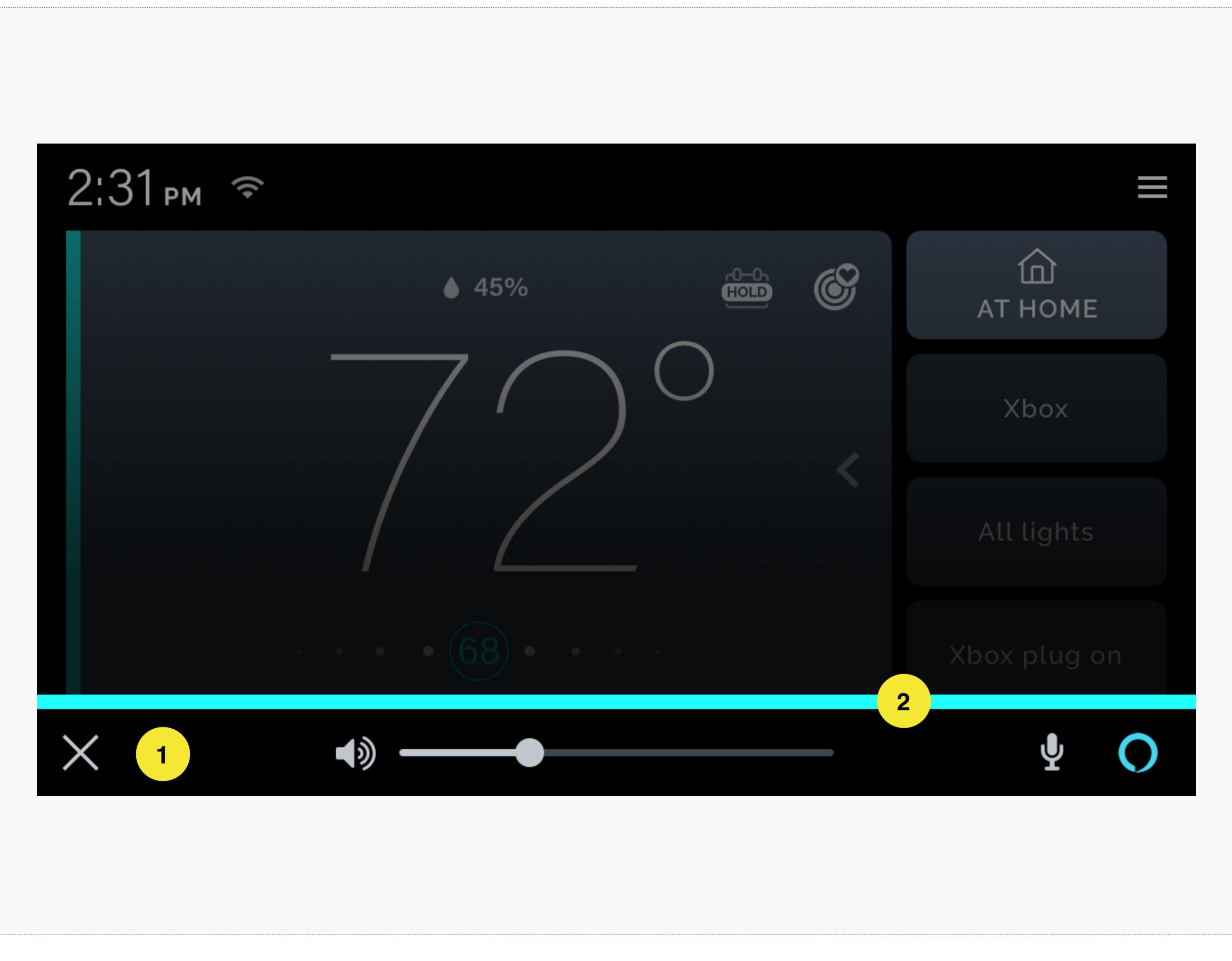


Amazon's AVS UX design guidelines explain that any integrated product must convey core Alexa attention states to the customer. The core attention states are "Listening", "Thinking" and "Speaking". This shows the main screen of thermostat when Alexa is listening to the user.

- 1 When the user speaks to Alexa the main screen darkens and the bottom bar is replaced with an Alexa control bar.
- 2 A blue and turquoise animated strip provides users with a visual cue to indicate that Alexa is actively listening. This is supplemented by text that says "Listening". This animation should be implemented as per AVS UX design guidelines. See note below.

NOTE: Full AVS design guidelines regarding attention state animations are available via the following URL: <https://developer.amazon.com/public/solutions/alexa/alexa-voice-service/content/alexa-voice-service-ux-design-guidelines#chrome>

T4.2 - Voice Control - Speaking

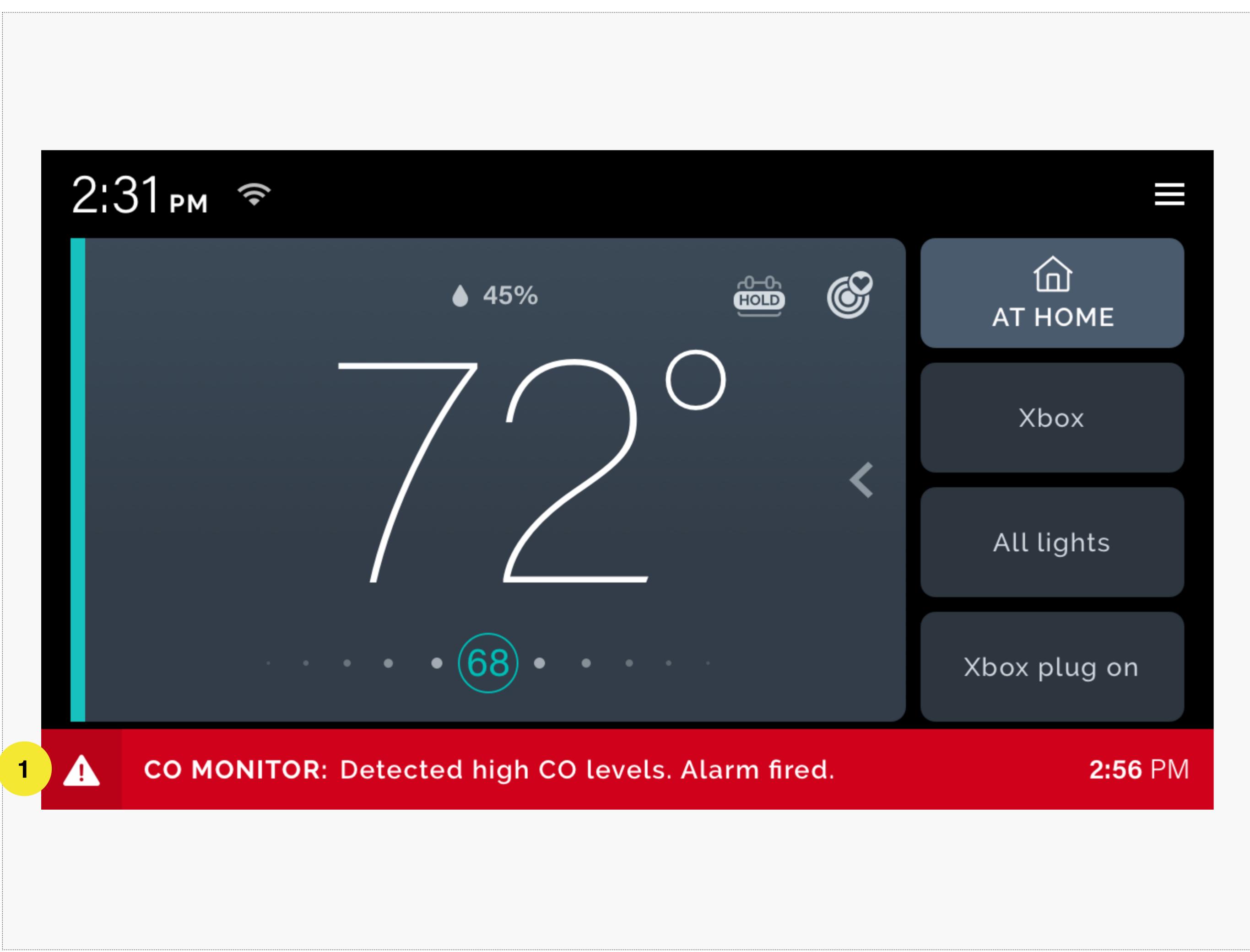


Amazon's AVS UX design guidelines explain that any integrated product must convey core Alexa attention states to the customer. The core attention states are Listening, Thinking and Speaking. This shows the main screen of thermostat when Alexa is speaking to the user.

- 1 When Alexa speaks to the user the main screen darkens and the bottom bar is replaced with an Alexa control bar that allows users to cancel the dialogue and adjust the speaker volume.
- 2 A blue and turquoise animated strip provides users with a visual cue regarding the attention state. This animation should be implemented as per AVS UX design guidelines. See note below.

NOTE: Full AVS design guidelines regarding attention state animations are available via the following URL: <https://developer.amazon.com/public/solutions/alexa/alexa-voice-service/content/alexa-voice-service-ux-design-guidelines#chrome>

T5.0 - Alerts - High Intensity + High Persistence



This is the view of the main screen of the thermostat when there is a single high intensity and high persistence alert.

1

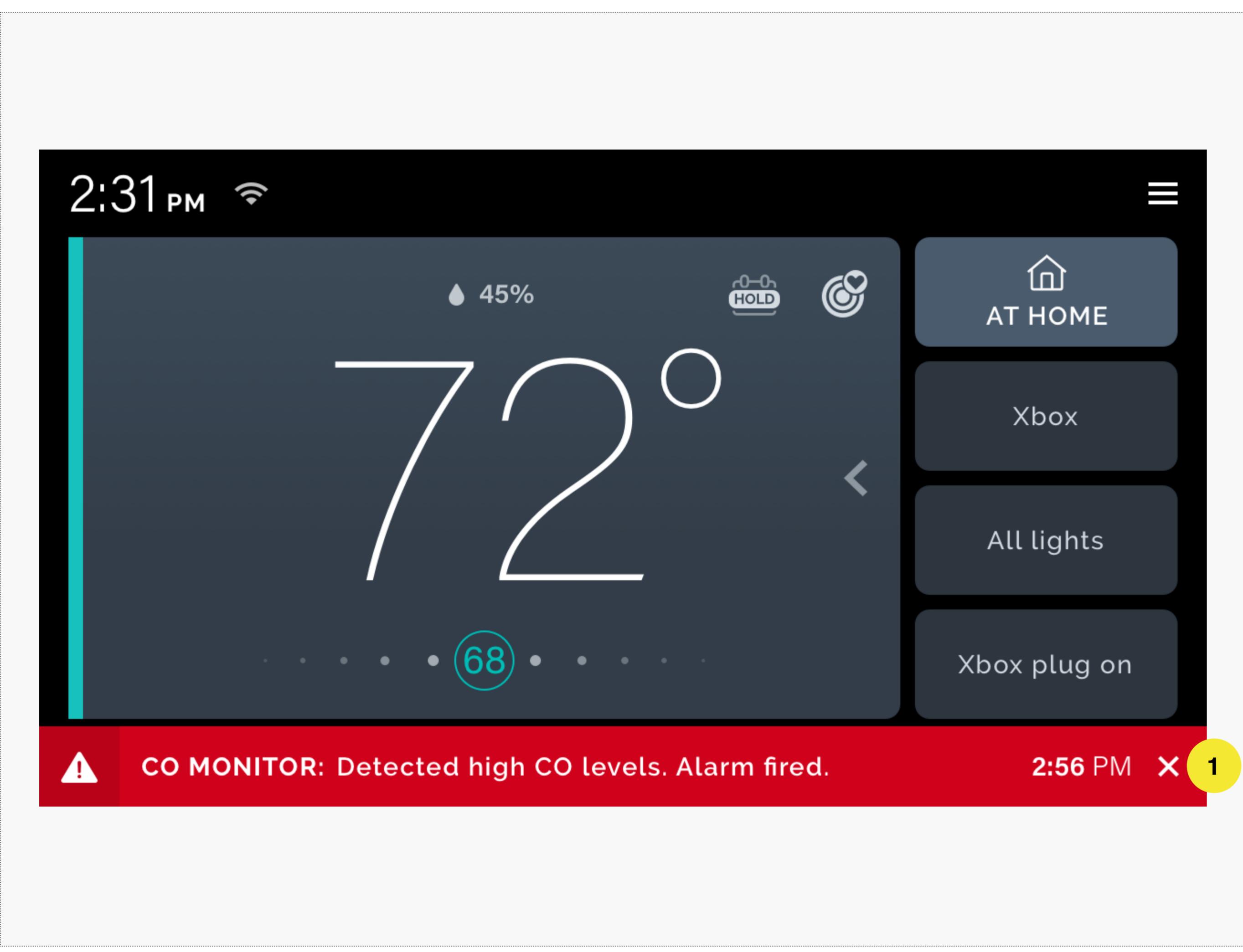
When there is a high intensity alert (with either high or low persistence), the bottom bar on the thermostat is replaced by a red alert strip that contains the alert and a timestamp. High intensity and high persistence alerts will only disappear from the screen when the raised issue has been rectified. There is no option for the user to manually dismiss a high intensity, high persistence alert.

If voice control is initiated the Alexa control bar temporarily replaces the red alert strip. The red alert strip is displayed again once voice interaction is complete.

For single alerts containing too many characters the text should scroll horizontally as a simple marquee.

NOTE: When there are open Alerts the red alert strip remains visible across all screens.

T5.1 - Alerts - High Intensity + Low Persistence

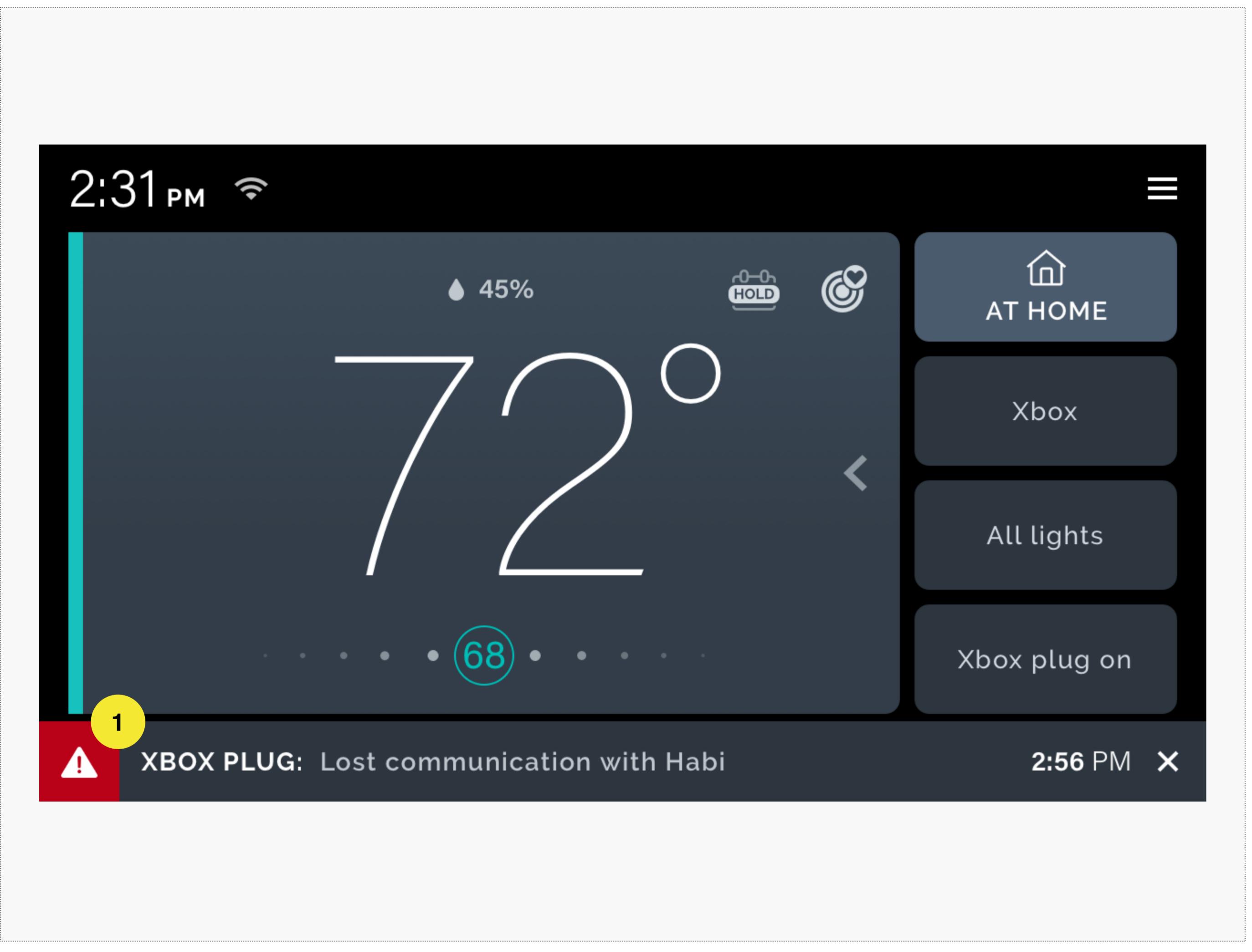


This is the view of the main screen of the thermostat when there is a single high intensity, low persistence alert.

- 1 When there is a high intensity alert (with either high or low persistence), the bottom bar is replaced by a red alert strip which contains the alert message and a timestamp.

High intensity, low persistence alerts are manually dismissible by tapping on the close icon.

T5.2 - Alerts - Low Intensity + Low Persistence



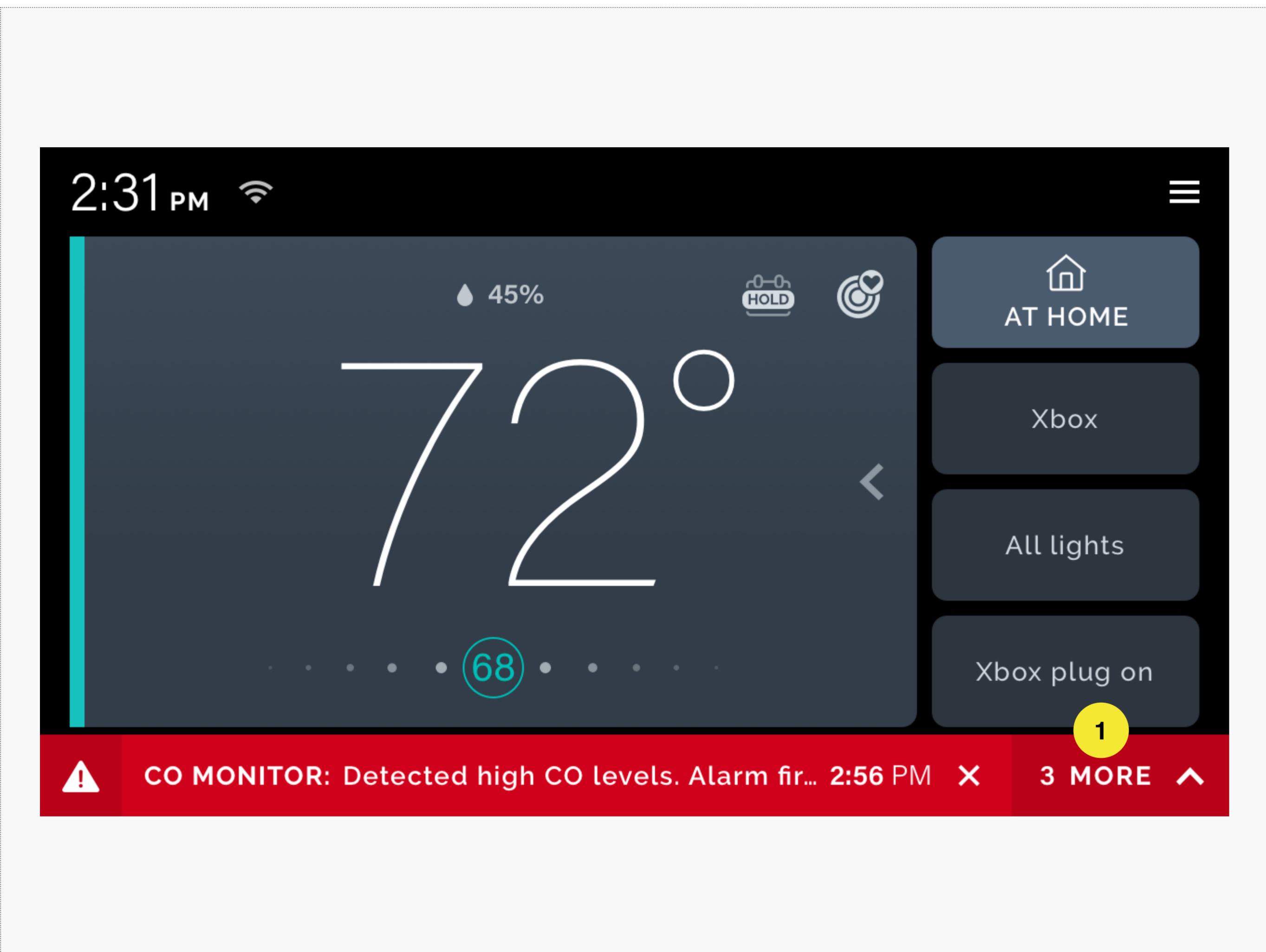
This is the view of the main screen of the thermostat when there is a single, low intensity and low persistence alert.

1

Low intensity alerts (either high or low persistence) have a red alert icon with a grey alert strip, rather than red.

Low persistence alerts are manually dismissible by tapping the close icon.

T5.3 - Alerts - Multiple

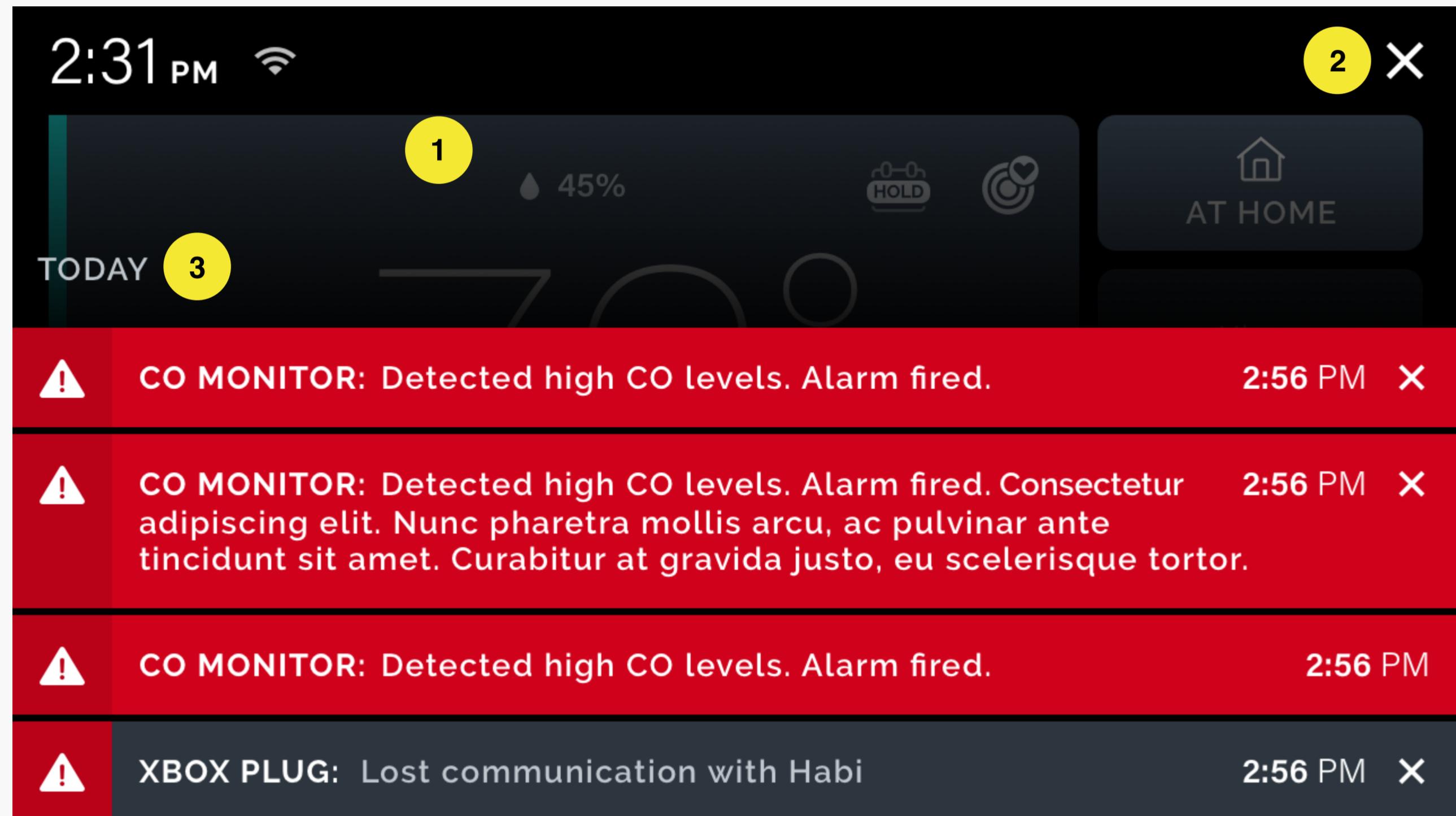


This is a view of the main screen of the thermostat when there are multiple alerts with at least one of those alerts being of high intensity.

- When there are multiple alerts, the alert text is truncated with ellipsis, the timestamp and close icon are brought over further to the left of the alert strip, making way for a button showing the total alert count together with an expand icon. This button can be tapped to open the alerts drawer. See T5.4 - Alerts - Drawer Open

NOTE: When there are multiple alerts the most recent alert is displayed in the bottom bar however high intensity, high persistence alerts take precedence over all other alerts. Therefore the most recent high intensity, high persistence alert will be displayed regardless of whether a high intensity, low persistence or low intensity alert has been raised more recently.

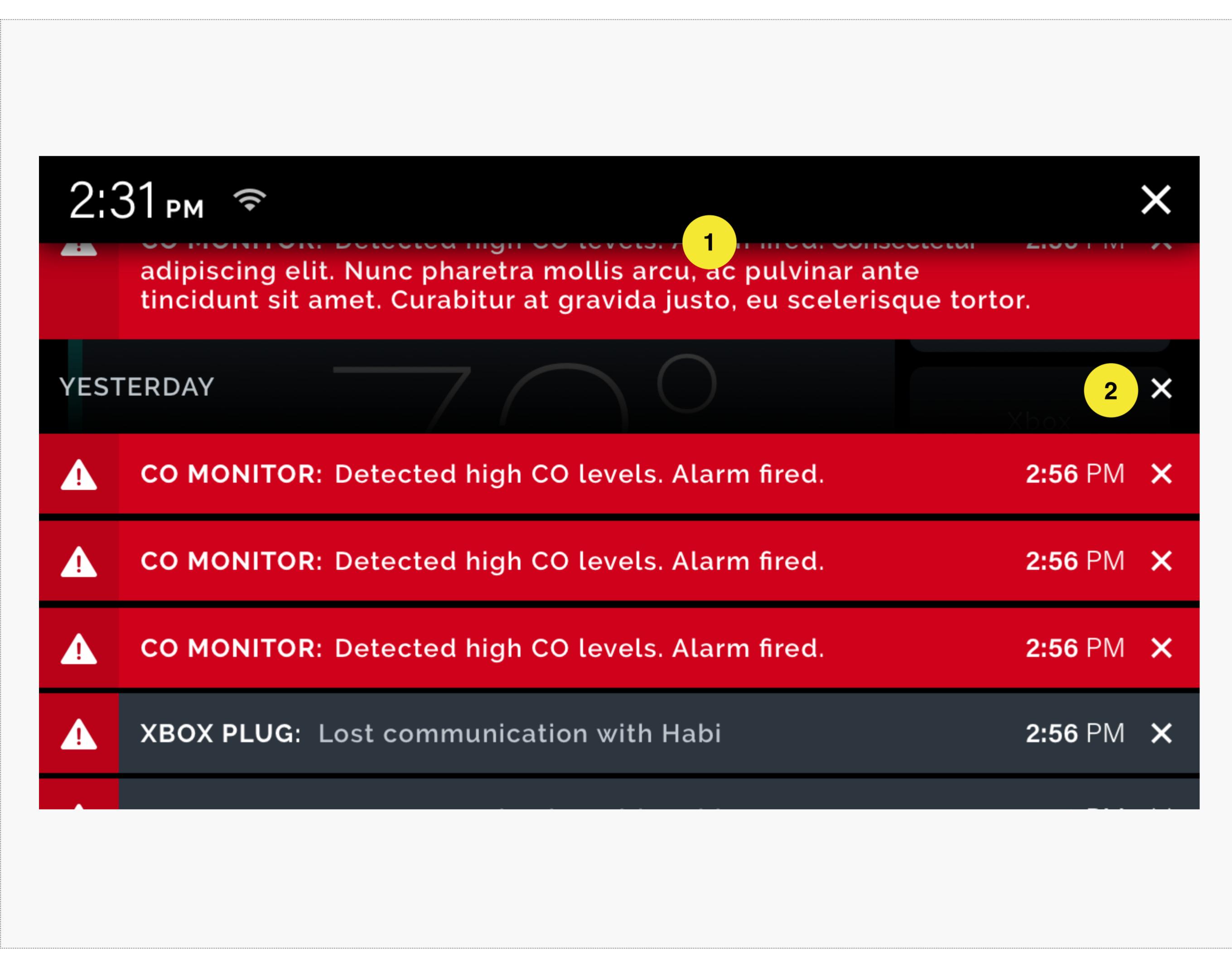
T5.4 - Alerts - Drawer Open



This is a view of the expanded alerts drawer when the user has a total of four alerts: one high intensity, high persistence alert; two high intensity, low persistence alerts; and one low intensity alert (either high or low persistence).

- 1 The alerts drawer overlays the full thermostat screen with exception to the top bar. Any part of the screen that is not covered by alerts is darkened.
- 2 The alerts drawer can be closed by tapping on the close icon.
- 3 Alerts are ordered in a list based on date and time received with most recently received alerts being displayed first, at the top of the list. Relative date stamps are used for Today and Yesterday, moving to absolute date stamps beyond that.

T5.5 - Alerts - Drawer Open (Scroll)

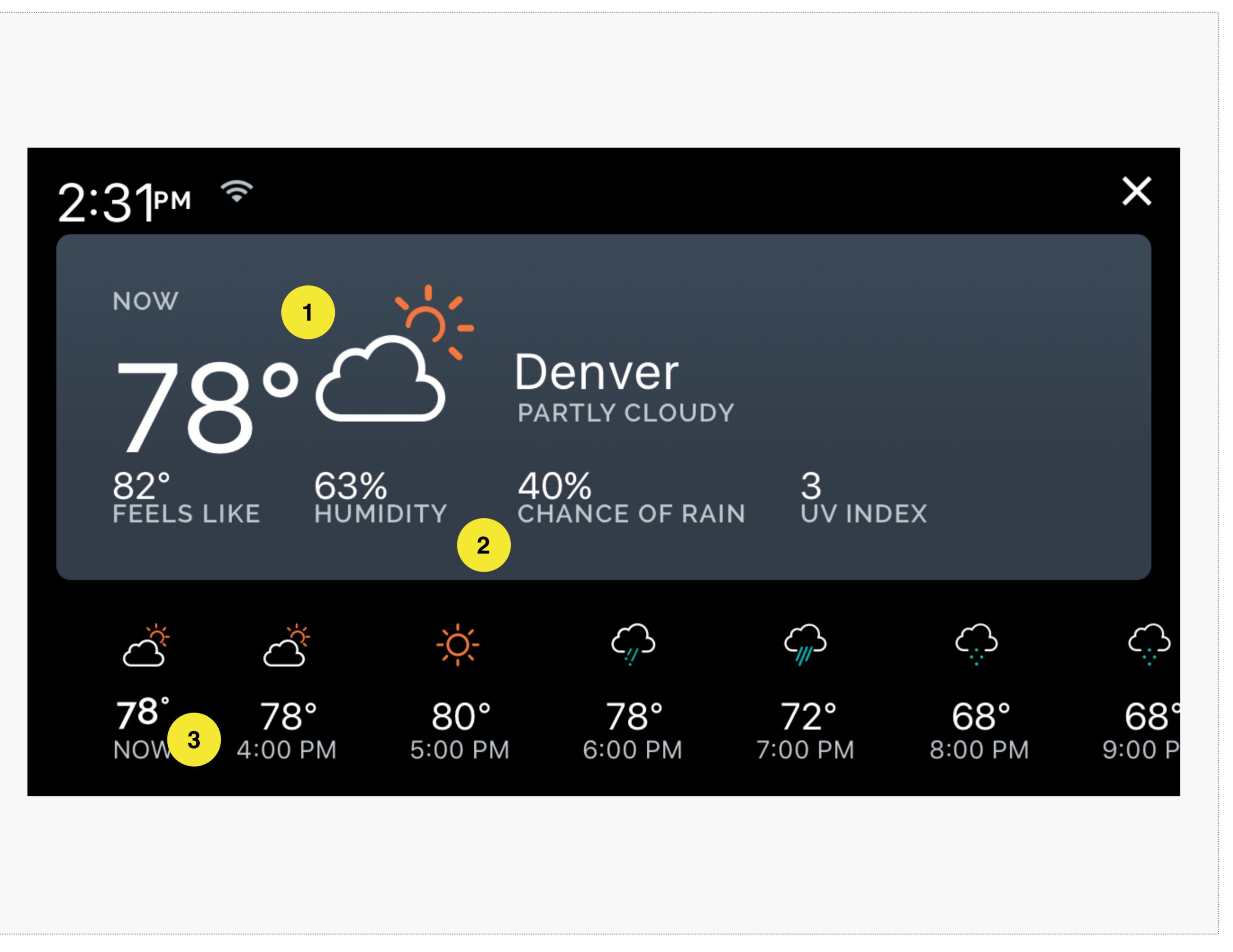


This is a view of the expanded alerts drawer when there are too many alerts to fit on a single thermostat screen and scroll is required.

1 On scrolling from bottom to top alerts slide underneath the top status bar.

2 Alerts can be dismissed in bulk by date / day unless there is a high intensity, high persistence alert on that date. If so, all lower severity alerts will be dismissed and the high intensity, high persistence alert will remain.

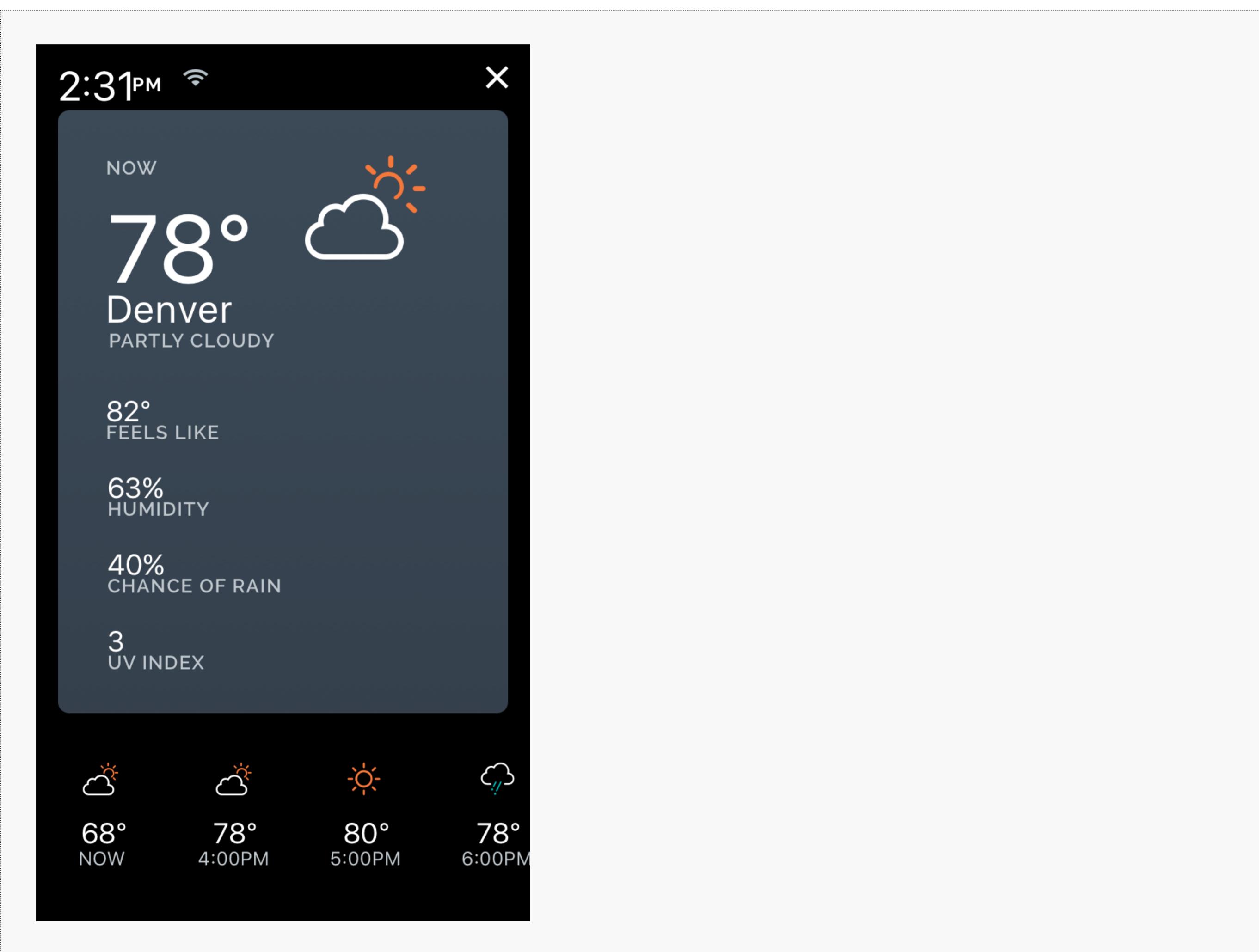
T6.0 - Weather



This is a view of the weather screen, accessible by tapping on the outside weather temperature area on the bottom bar of the thermostat screen.

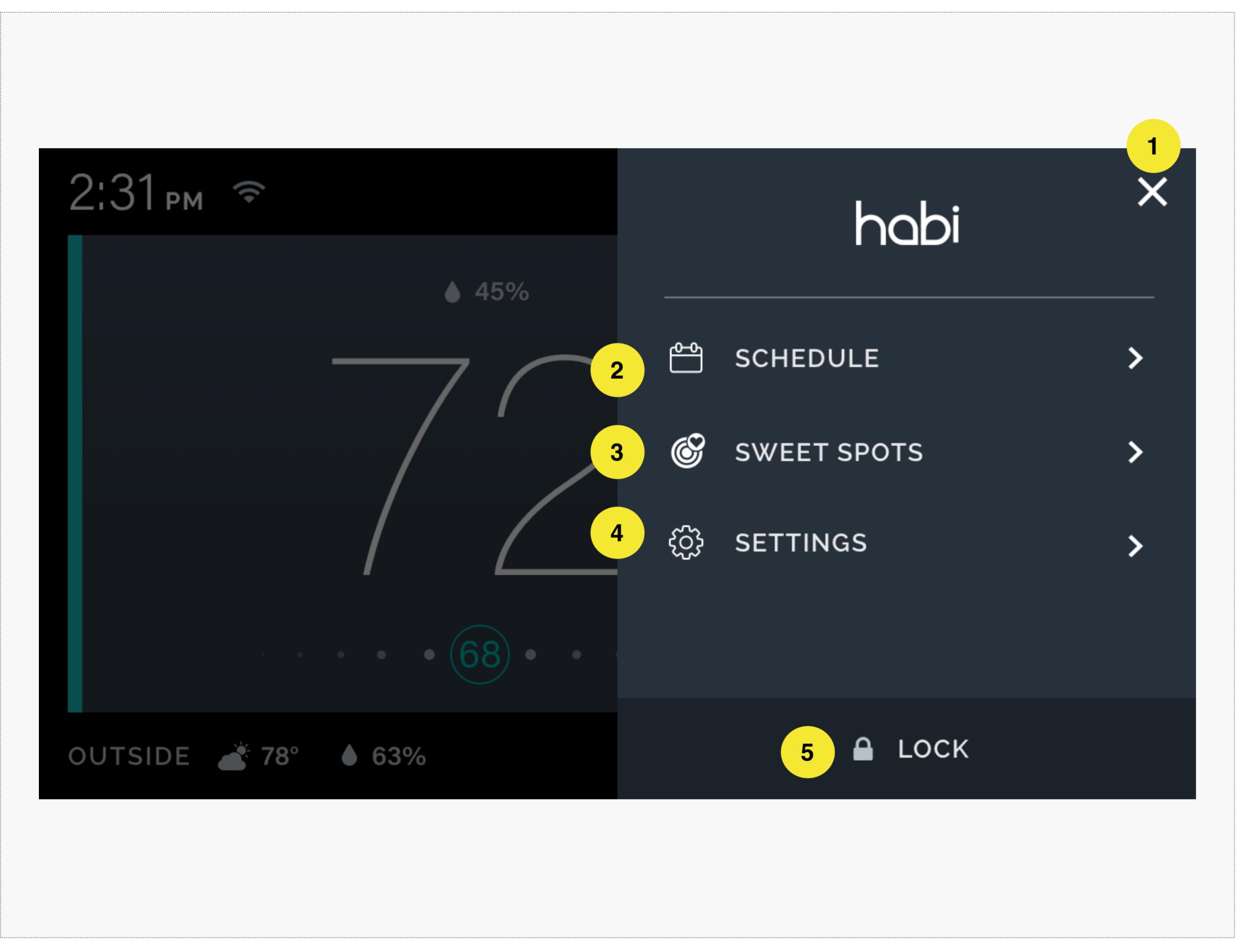
- 1 The current temperature is displayed in the main weather panel together with an icon, location and weather description.
- 2 "Feels Like", "Humidity", "Chance of Rain" and "UV Index" temperature data is displayed.
- 3 Temperatures are shown for the day ahead, in one hour increments. Users can swipe from right to left to reveal hours later in the day. Hours of the day that have passed are not viewable.

T6.1 - Weather - Portrait



This is a view of the thermostat's weather screen in portrait view.

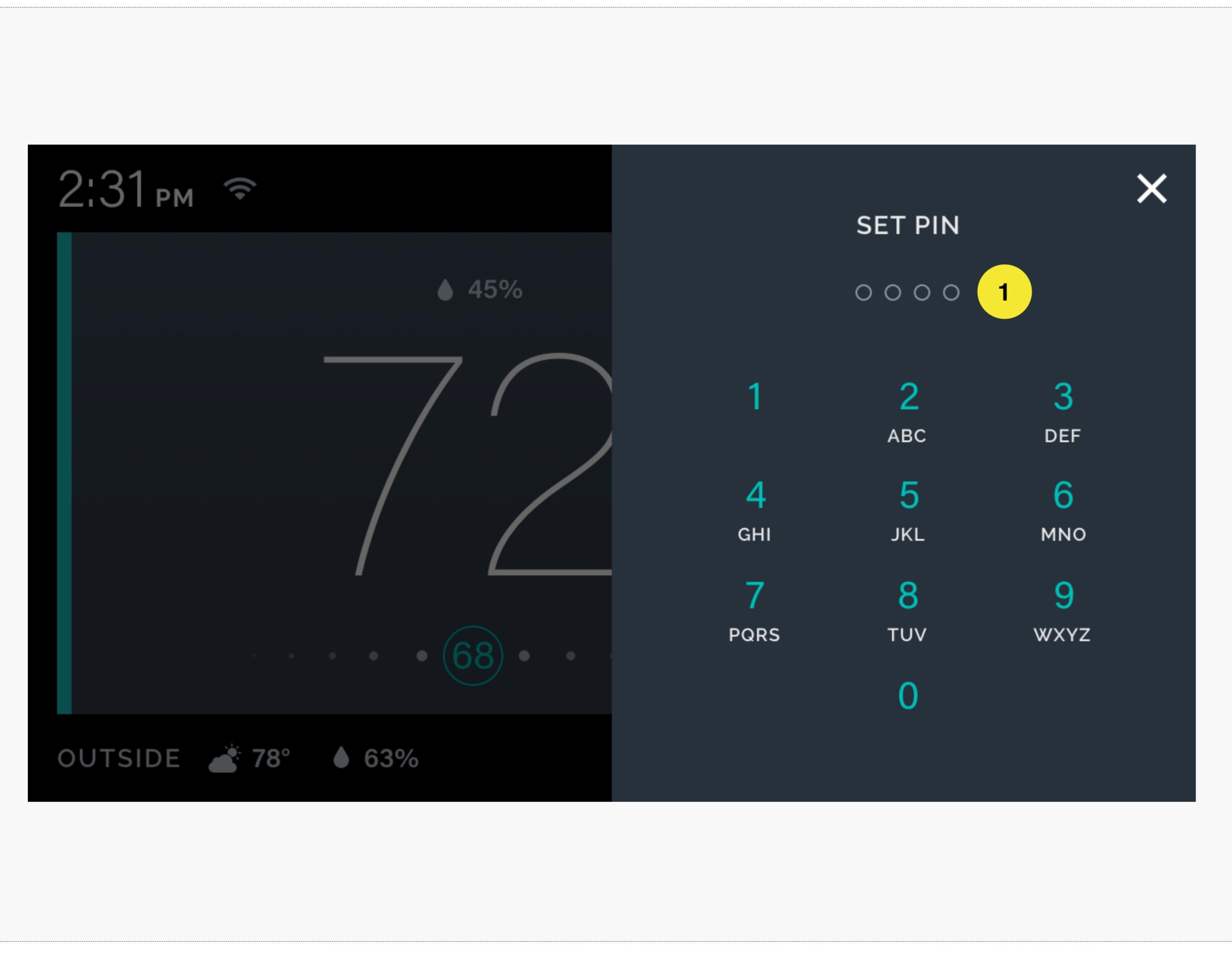
T7.0 - Menu



This is a view of the expanded hamburger menu of the thermostat screen. It is accessed when the hamburger icon is tapped.

- 1 The hamburger menu can be closed by tapping on the close icon or elsewhere on the thermostat screen outside of the menu.
- 2 The Schedule menu item links to the thermostat schedule screen. See T9.0 - Schedule
- 3 If users have a second thermostat or one or more remote temperature sensors the The Sweet Spots menu item links to the Sweet Spots screen. See T10.0 - Sweet Spots. If users don't have any remote temperature sensors or additional thermostats the Sweet Spots menu item links to screen T10.3 - Sweet Spots - Empty.
- 4 The settings menu item links to the thermostat settings screen. See T11.0 - Settings - Main.
- 5 Tapping on "LOCK" will automatically put the app in Lock mode. If a LOCK has not been set up via settings this quick-lock button will not be displayed in the hamburger menu.

T8.0 - Lock Screen - Set

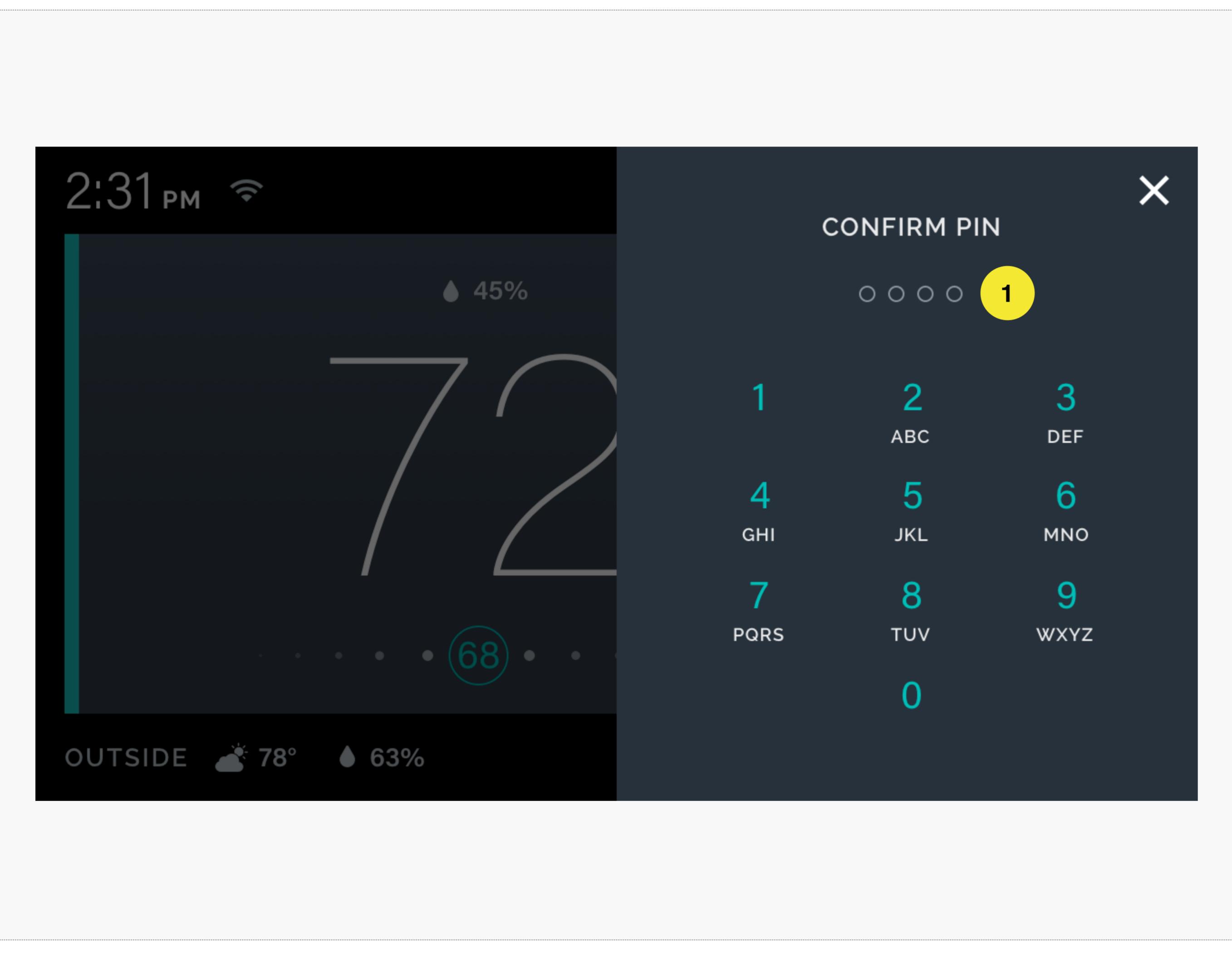


This shows the screen that is displayed when a user opts to apply a lock to the thermostat for the first time and is asked to set a pin. The same screen is also displayed if a user edits an existing pin via Display Settings.

1

User enters four digits and is then presented with the re-enter pin screen. See T8.1 - Lock Screen - Re-enter.

T8.1 - Lock Screen - Re-enter

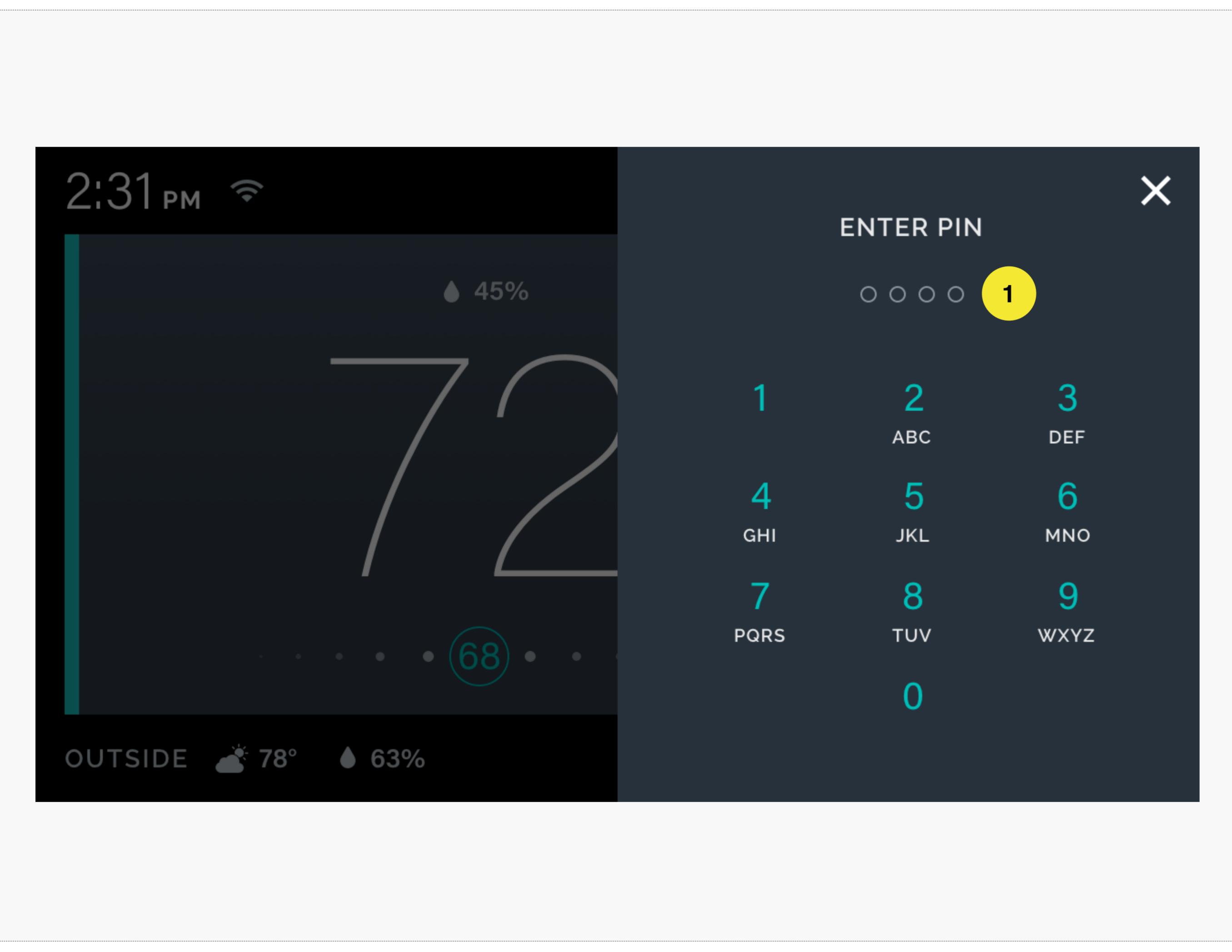


This is a secondary pin confirmation screen that is displayed after the first entry of a new pin.

1

User re-enters the same four digit pin in order to set it. If the two pins entered don't match, the user will be taken back to the Set Pin screen - T8.0 - Lock Screen - Set. "SET PIN" text will be replaced by "TRY AGAIN".

T8.2 - Lock Screen - Unlock

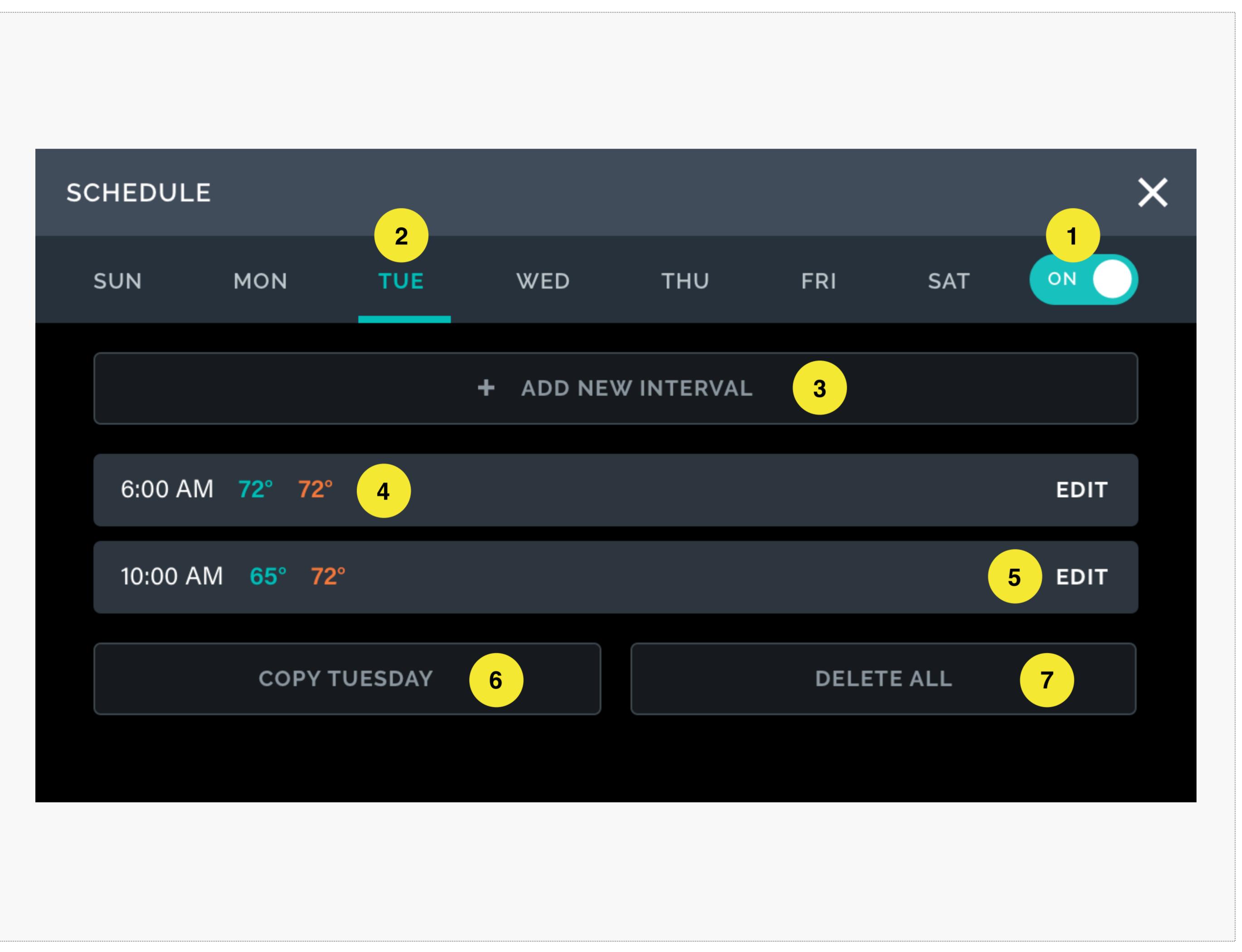


This screen is displayed when the thermostat has a lock applied to it and has been woken from either Sleep or Idle mode.

1

User enters four digits. If correct the thermostat is unlocked. If incorrect "ENTER PIN" text will change to "TRY AGAIN" and the user will need to enter the correct pin in order to unlock the thermostat.

T9.0 - Schedule

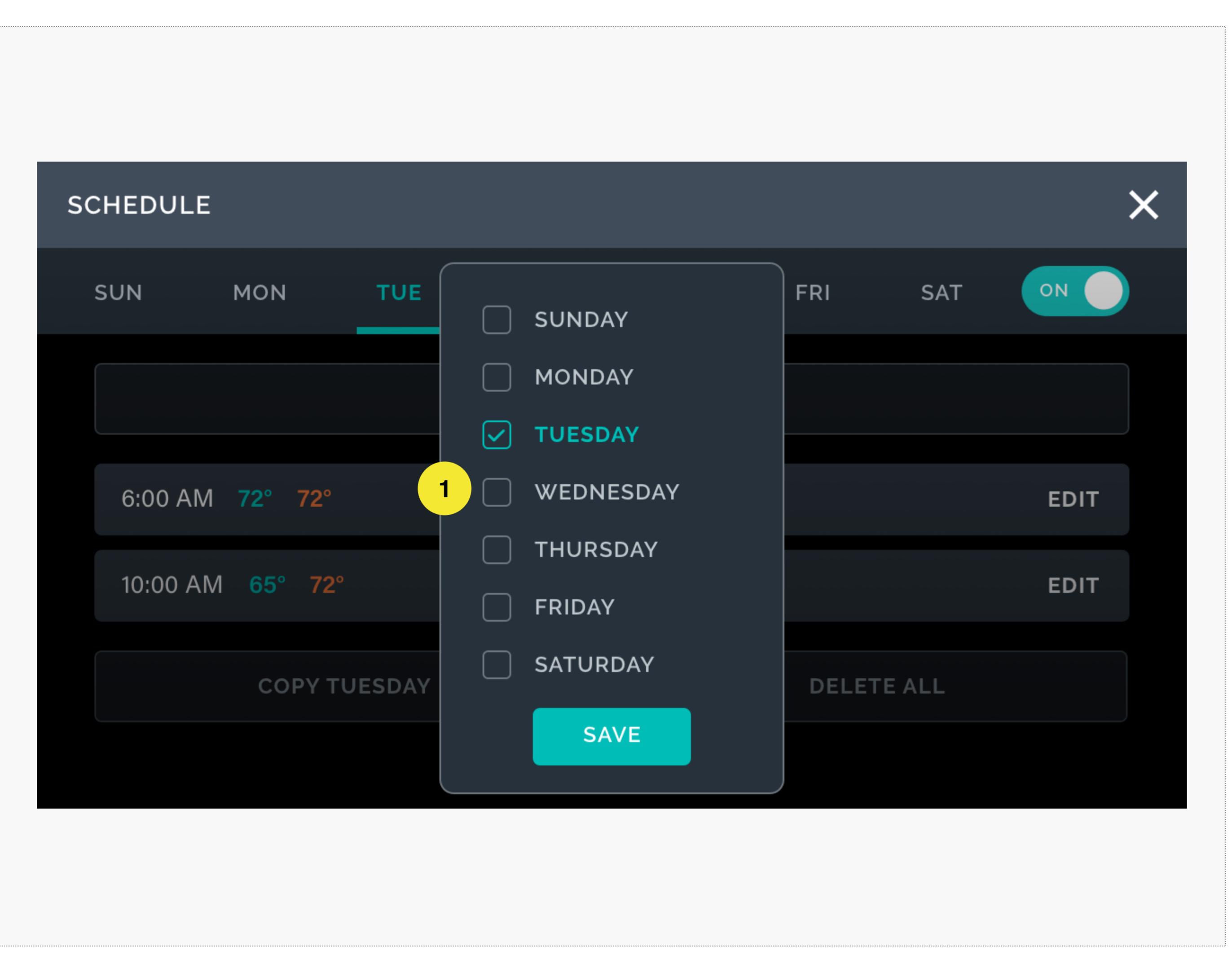


This is a view of the schedule screen when Schedule is switched on. It is accessed by tapping Schedule in the hamburger menu (T7.0). Users can set up, edit or delete a daily thermostat schedule via this screen. Full details on the functionality for creating a schedule are available in Confluence.

- 1 Switch to manually turn the schedule On or Off.
- 2 Ability to set up a daily schedule with tabs for each day of the week.
- 3 Ability to add multiple intervals per day (See T9.2 - Schedule - Long).
- 4 Users add a time, cooling set point and heating set point for each interval. See screens: T9.5, T9.6 and T9.7.
- 5 Intervals are easily editable by tapping on the EDIT button. On tapping "EDIT" users are directed to T9.5 - Schedule - Edit - Set Time.
- 6 Ability to copy one day's schedule and apply it to multiple days. Once COPY TUESDAY is tapped users are presented with a day selection checkbox overlay. See T9.1 - Schedule - Tick Days.
- 7 Quick option to delete all intervals from a given day.

NOTE: When geofencing is set up via the companion app, temperature / HVAC changes are determined by a system's Status rather than via a Schedule. Confirmation is required as to whether setup of geofencing will automatically switch a Schedule from On to Off in the thermostat.

T9.1 - Schedule - Tick Days

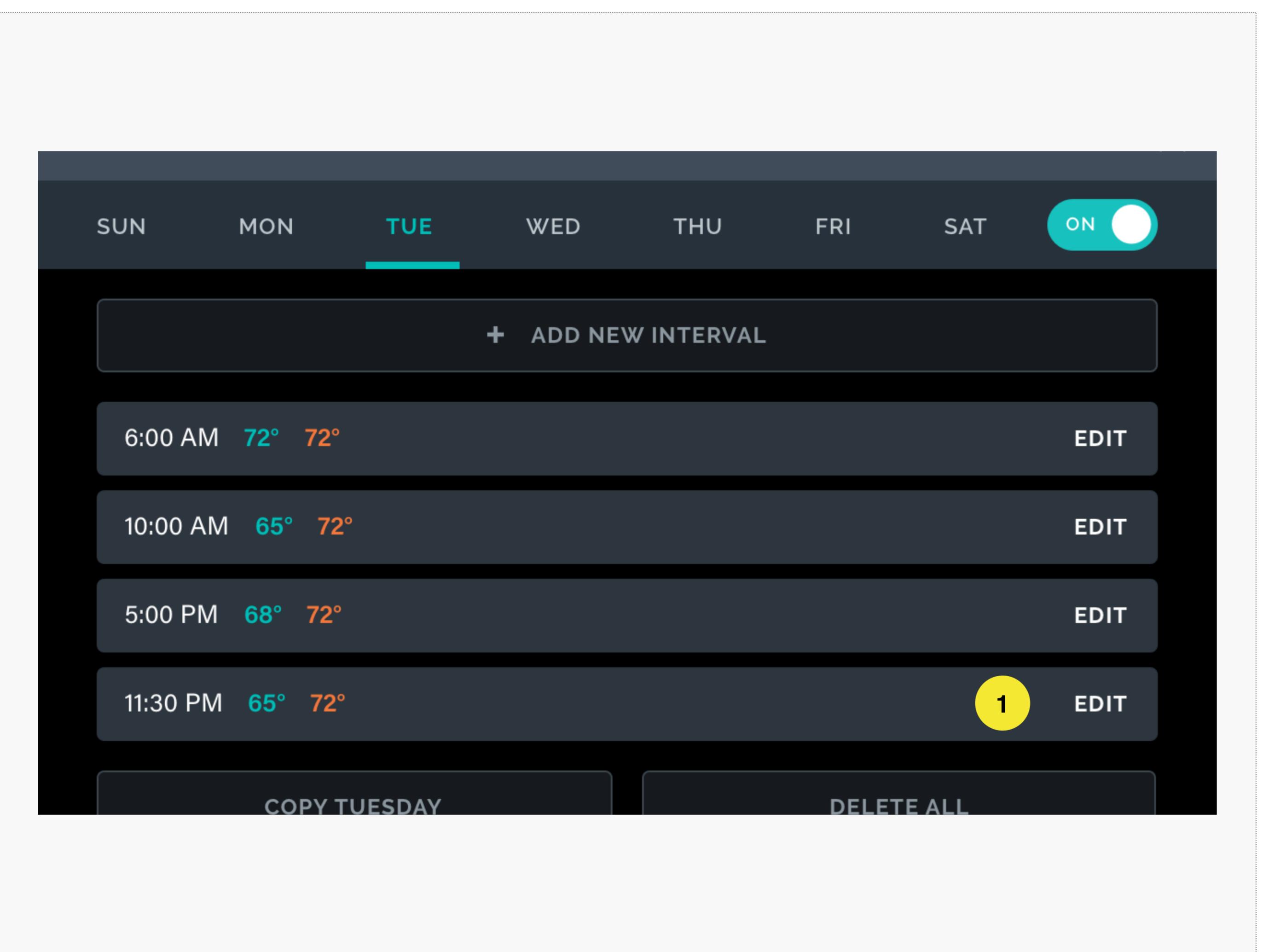


This is a view of the day selection checkbox overlay which is presented when a user opts to copy a one day schedule.

1

The one day schedule that the user is copying from is automatically checked. Users can tap the check box next to the additional day(s) that they want to apply Tuesday's schedule to, before tapping save to update those additional days.

T9.2 - Schedule - Long

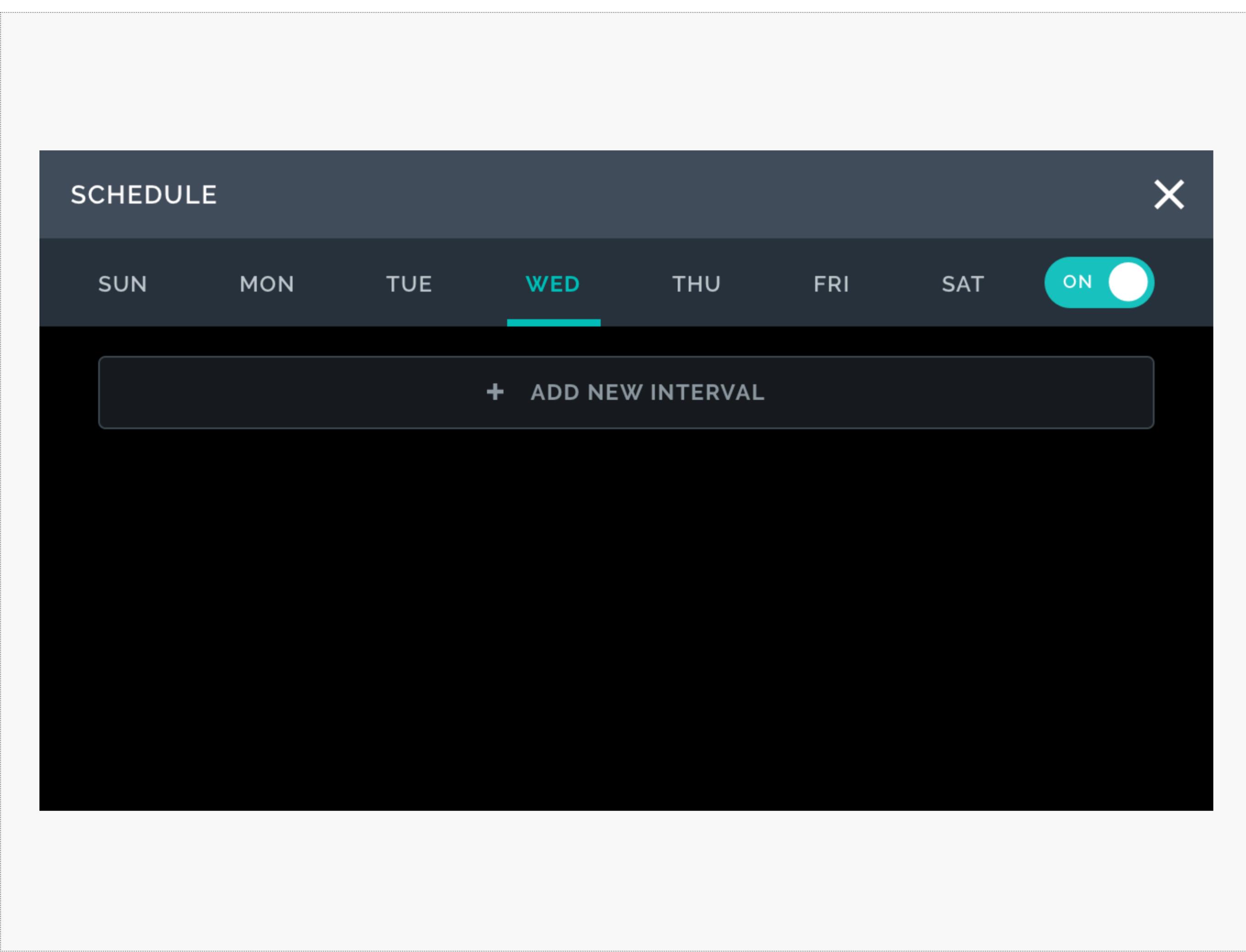


This is a one day view of the schedule screen when multiple intervals have been added.

1

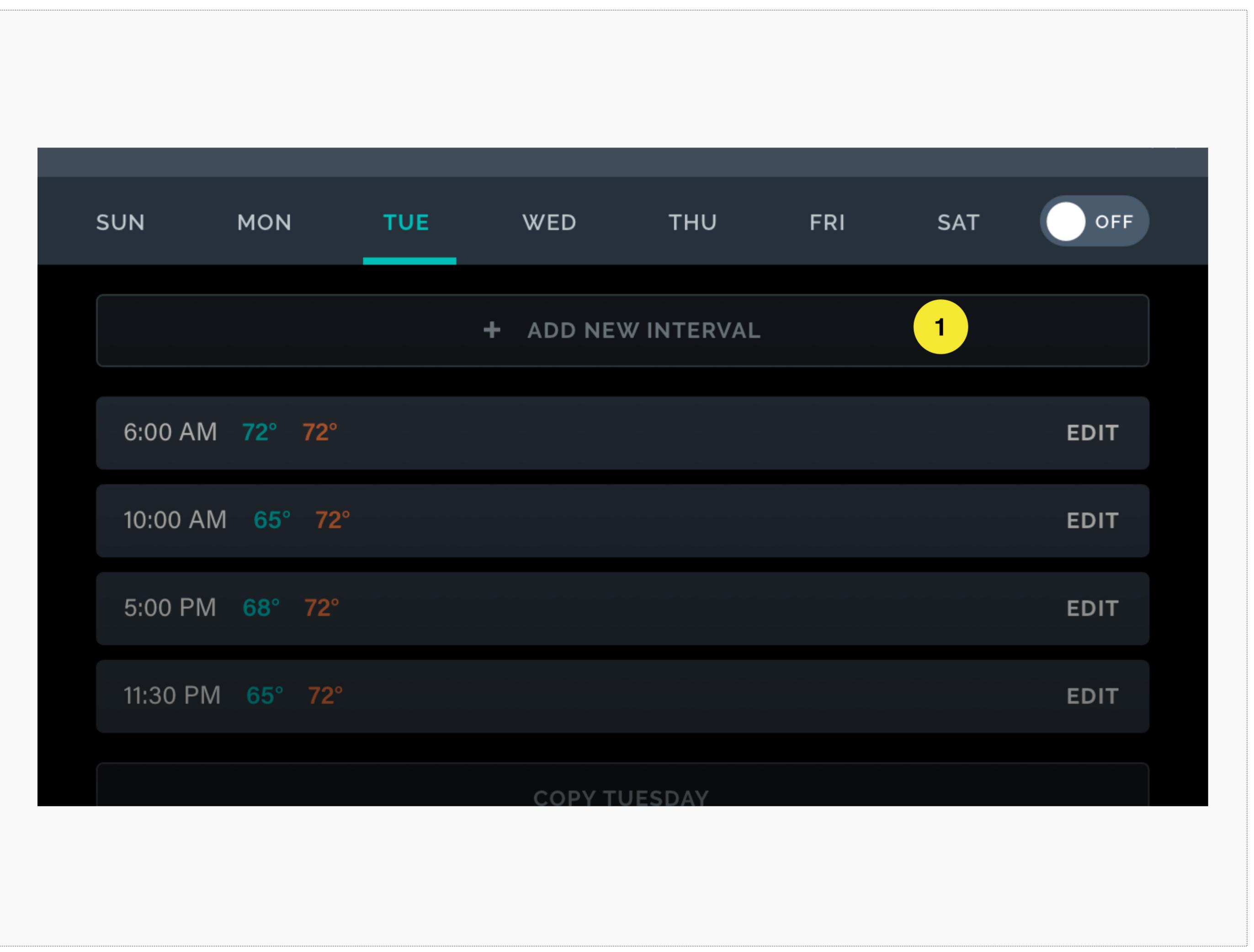
When multiple intervals are added to a single day the user can scroll from bottom to top to reveal more intervals and the COPY DAY and DELETE ALL buttons.

T9.3 - Schedule + Copy (active)



This is a one day view of the schedule screen when no intervals have been added.

T9.4 - Schedule - Off

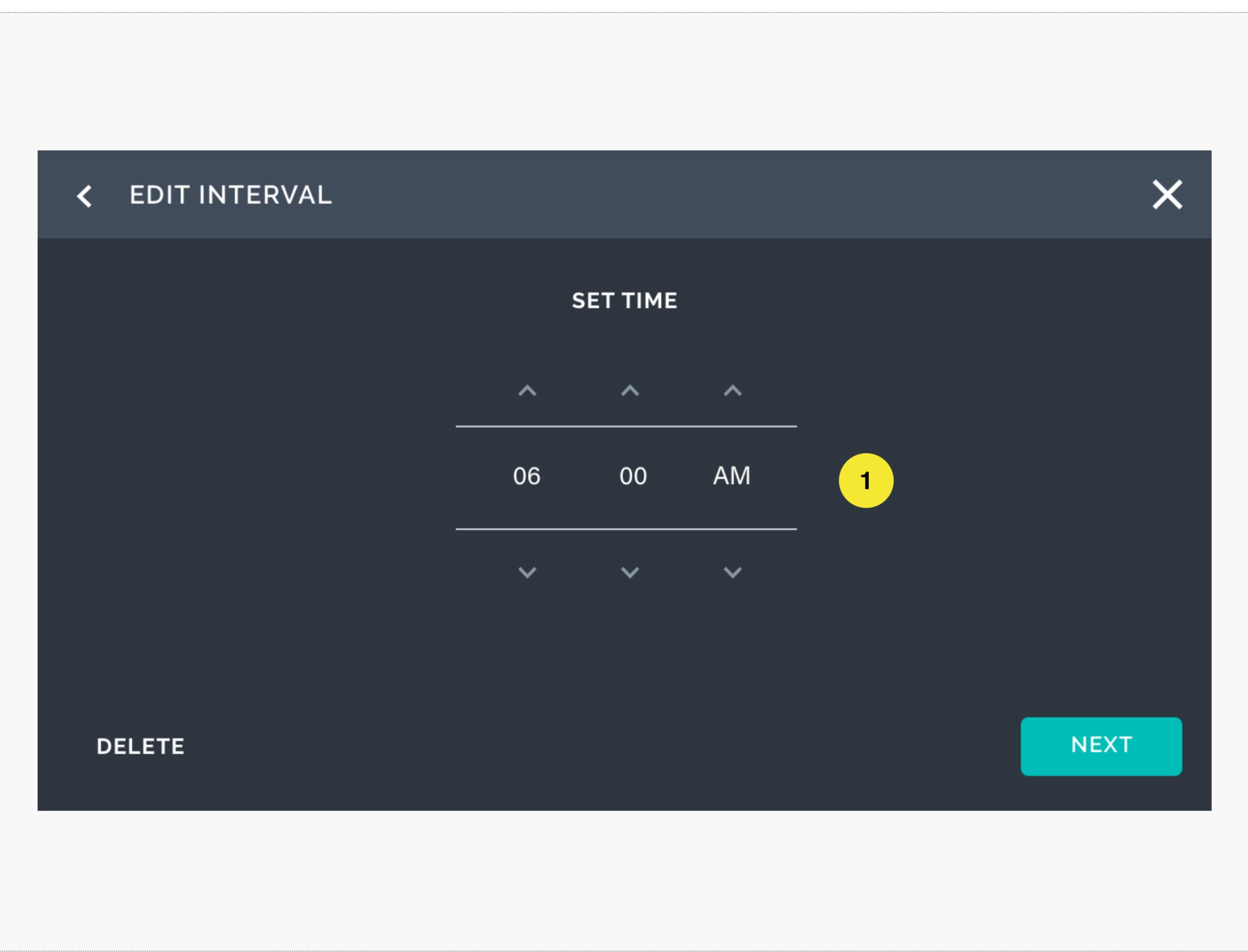


This is a view of the schedule screen when Schedule is switched off.

1

When the Schedule is switched off the screen is darkened slightly.

T9.5 - Schedule - Edit - Set Time

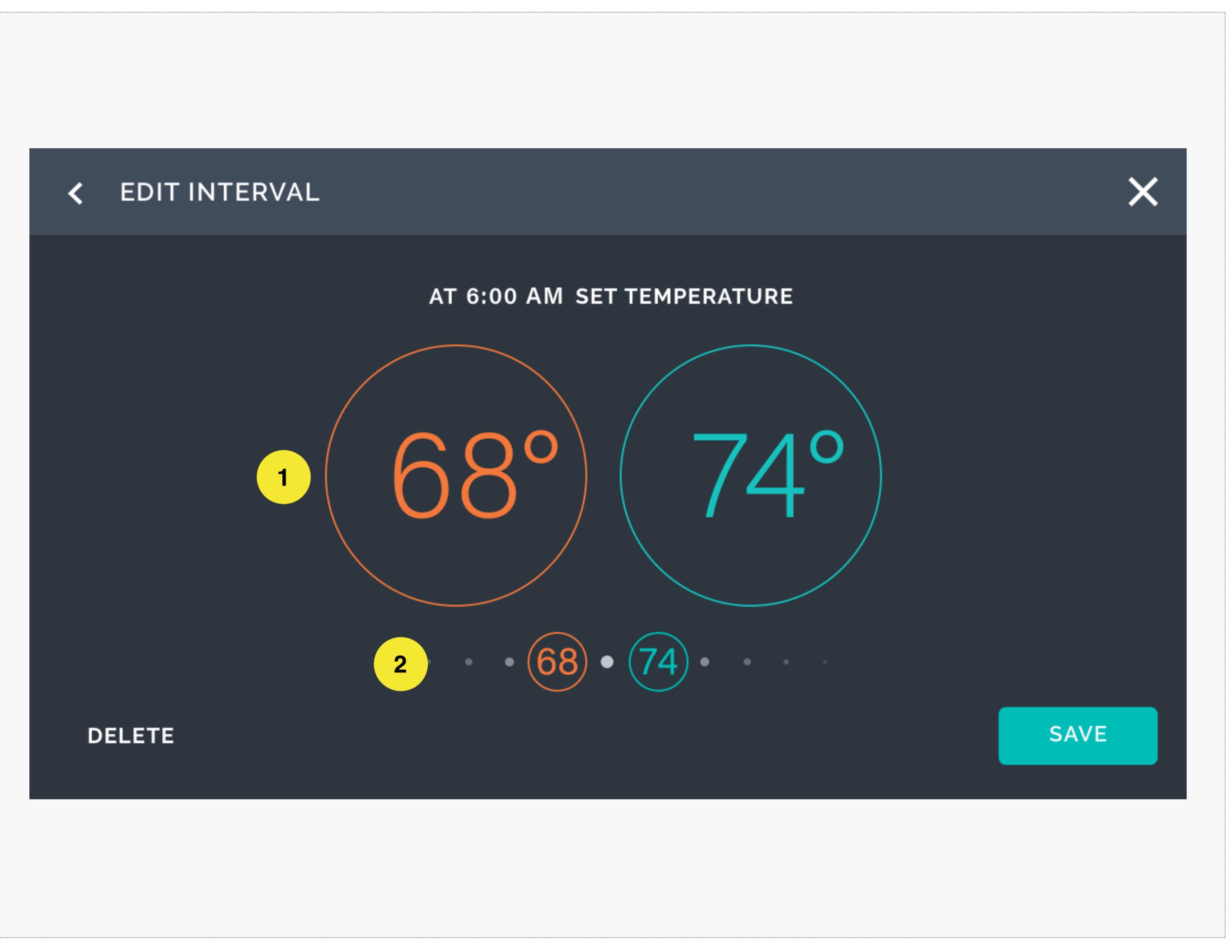


This is a view of the Set Time screen and is the first step when adding a new interval or editing an existing interval.

1

Users can tap the arrows to set the interval's time. Once set they can tap "NEXT" to progress to T9.6 - Schedule - Edit - Set Temperature or "DELETE" to return to the Schedule screen on the tab for the day that they were adding an interval to.

T9.6 - Schedule - Edit - Set Temperature



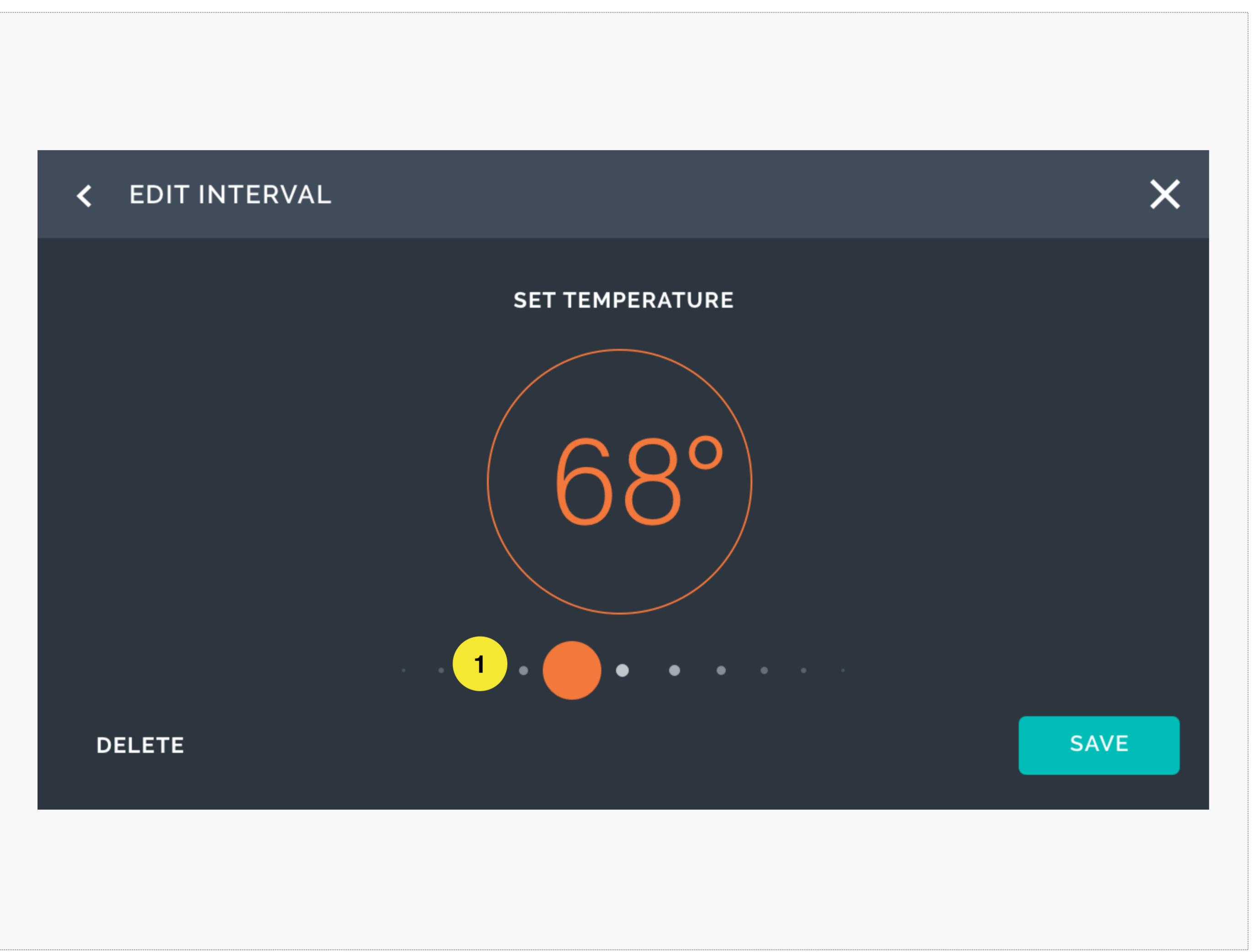
This is a view of the Set Temperature screen where the user can set the cooling and the heating temperature for each interval in their daily schedule.

1 Recommended heating and cooling temperatures are automatically displayed based on users' heating and cooling preferences, as specified in the thermostat setup process or based on the set points the user has set for auto mode. The display will be updated to reflect any manual adjustments to the heating / cooling set points.

2 If the user taps and holds on the heating set point, the slider becomes draggable and they are taken to TT9.7 - Schedule - Edit - Set Temperature (adjust heating set point). If the user taps the cooling set point the slider becomes draggable and they can adjust the cooling set point. The slider functions are described in T2.5 - Temperature Panel - Slider Functionality.

3 When the user is happy with the heating and cooling temperatures they can tap SAVE and will be returned to the Schedule screen on the tab for the day that they were adding an interval to. The interval they have added / edited will be displayed on this screen.

T9.7 - Schedule - Edit - Set Temperature (adjust heating set point)

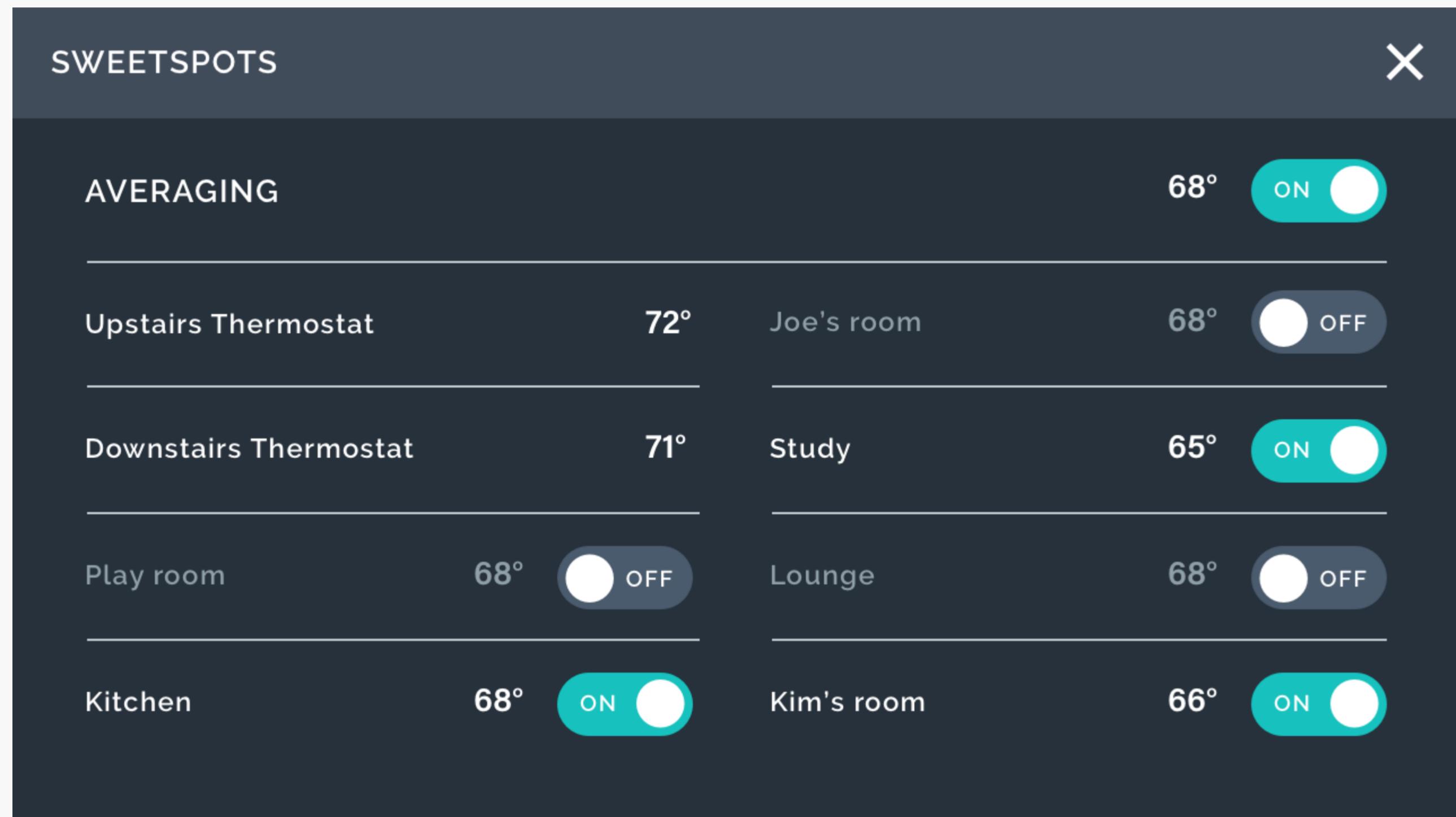


This screen is displayed when a user taps and holds their finger on the heating set points (i.e. started a drag interaction).

1

The slider functions are described in T2.5 - Temperature Panel - Slider Functionality.

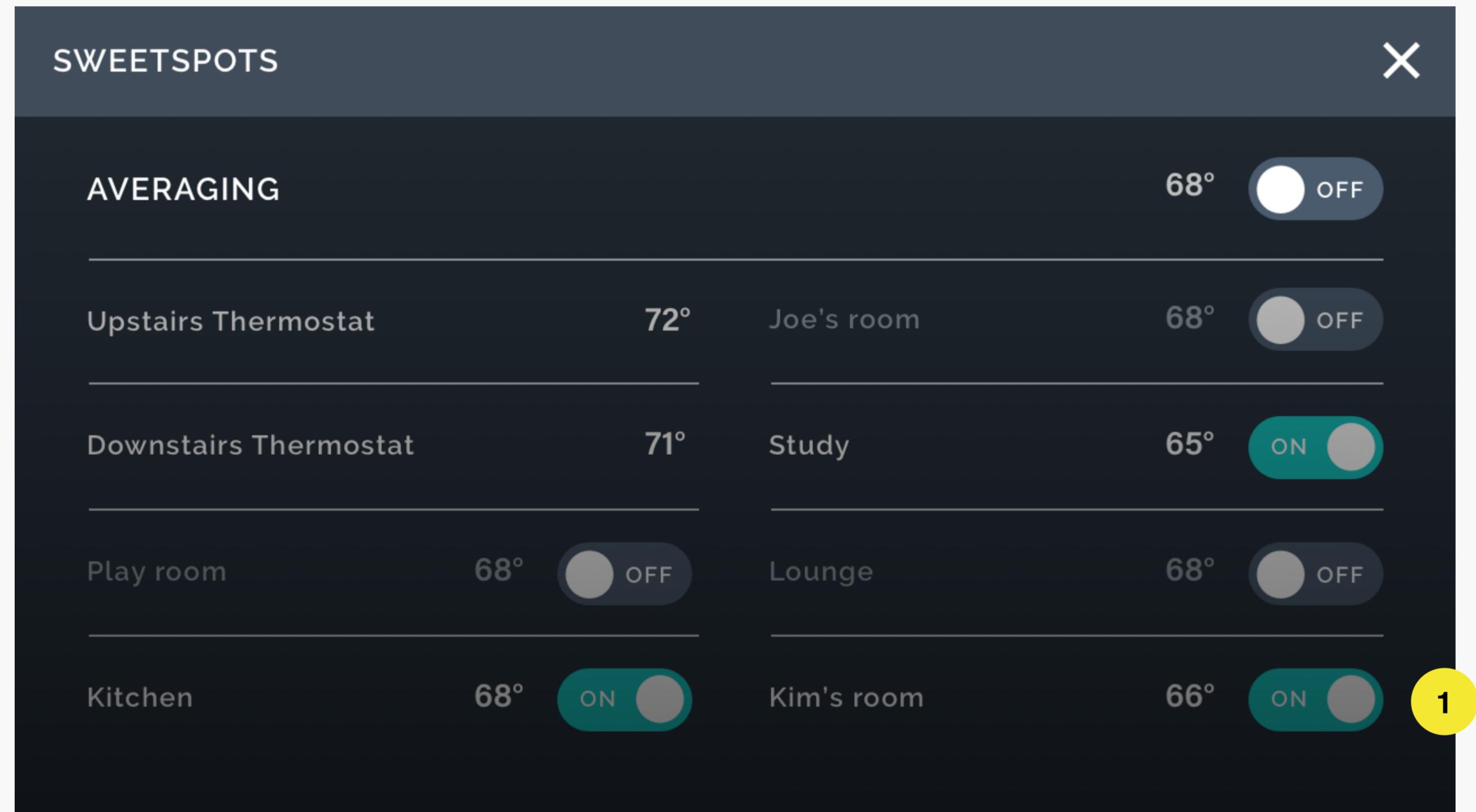
T10.0 - Sweet Spots



This is a view of the Sweet Spots screen when Averaging is switched on. It is accessed by tapping Sweet Spots in the hamburger menu (T7.0). This is a re-design of the existing thermostat screen. Please refer to Confluence for details on functionality.

NOTE: If the sweet Spot Icon is tapped and no remote temperature sensors or additional thermostats have been added a promotional marketing dialogue is displayed - See T10.3 - Sweet Spots Empty

T10.1 - Sweet Spots - Off - Save Settings



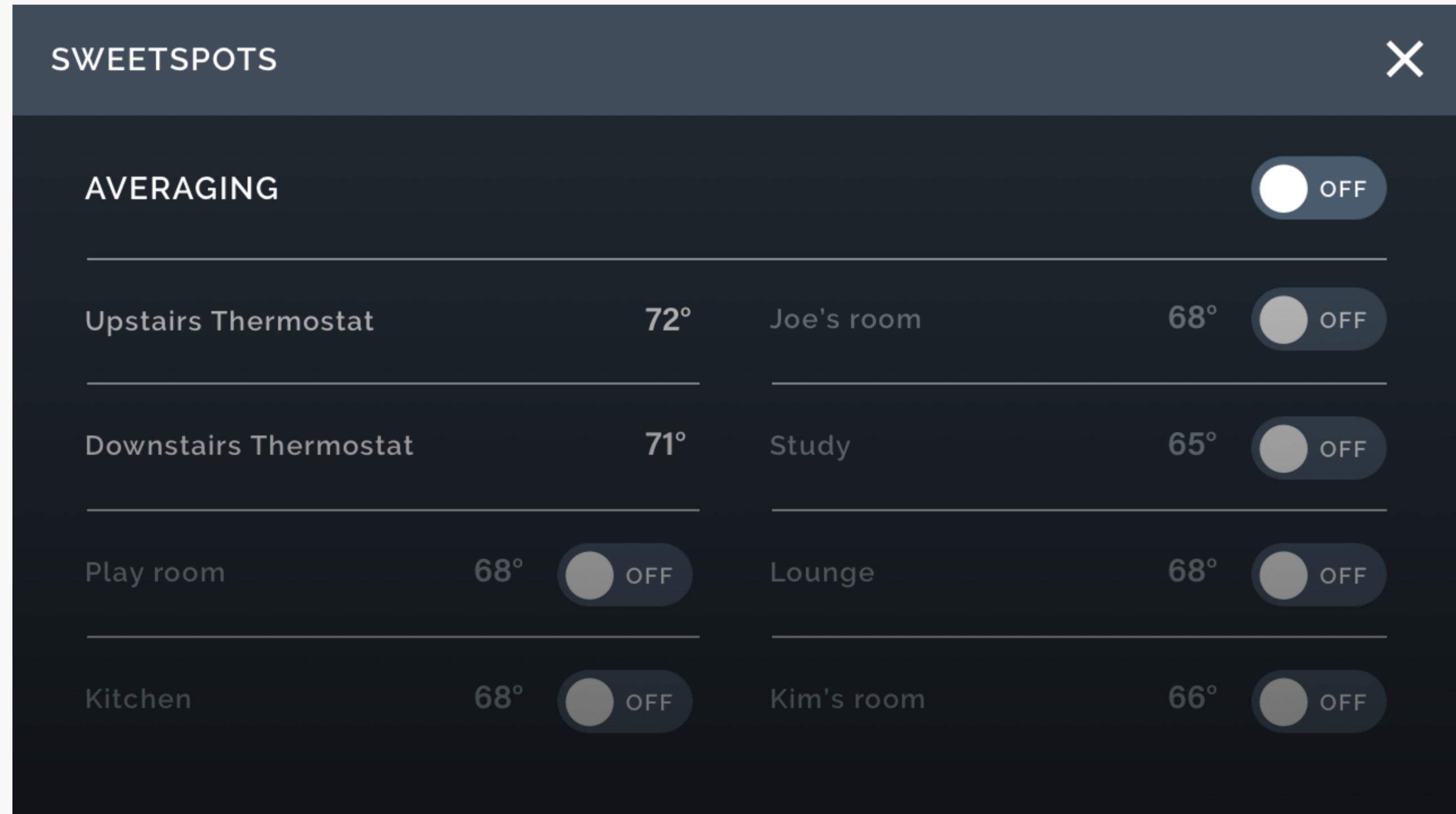
This is a view of the Sweet Spots screen when Averaging is switched off. It is accessed by tapping Sweet Spots in the hamburger menu (T7.0).

1

When Averaging is switched off this acts as a master override. Existing Sweet Spot settings are retained while the screen is darkened to reflect that Sweet Spot averaging is not active.

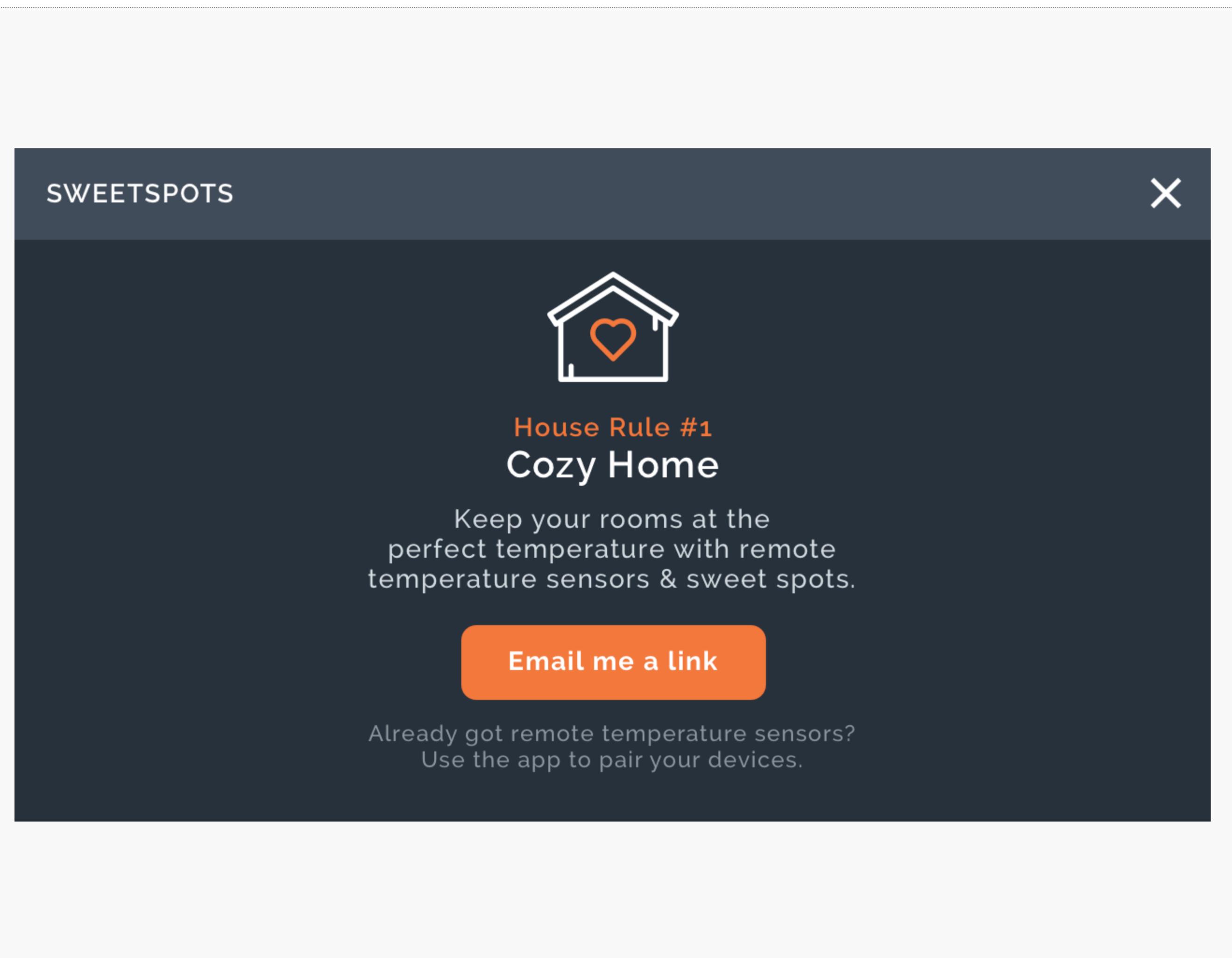
NOTE: If the sweet Spot icon is tapped and no remote temperature sensors or additional thermostats have been added a promotional marketing dialogue is displayed - See T10.3 - Sweet Spots Empty

T10.2 - Sweet Spots - All Off



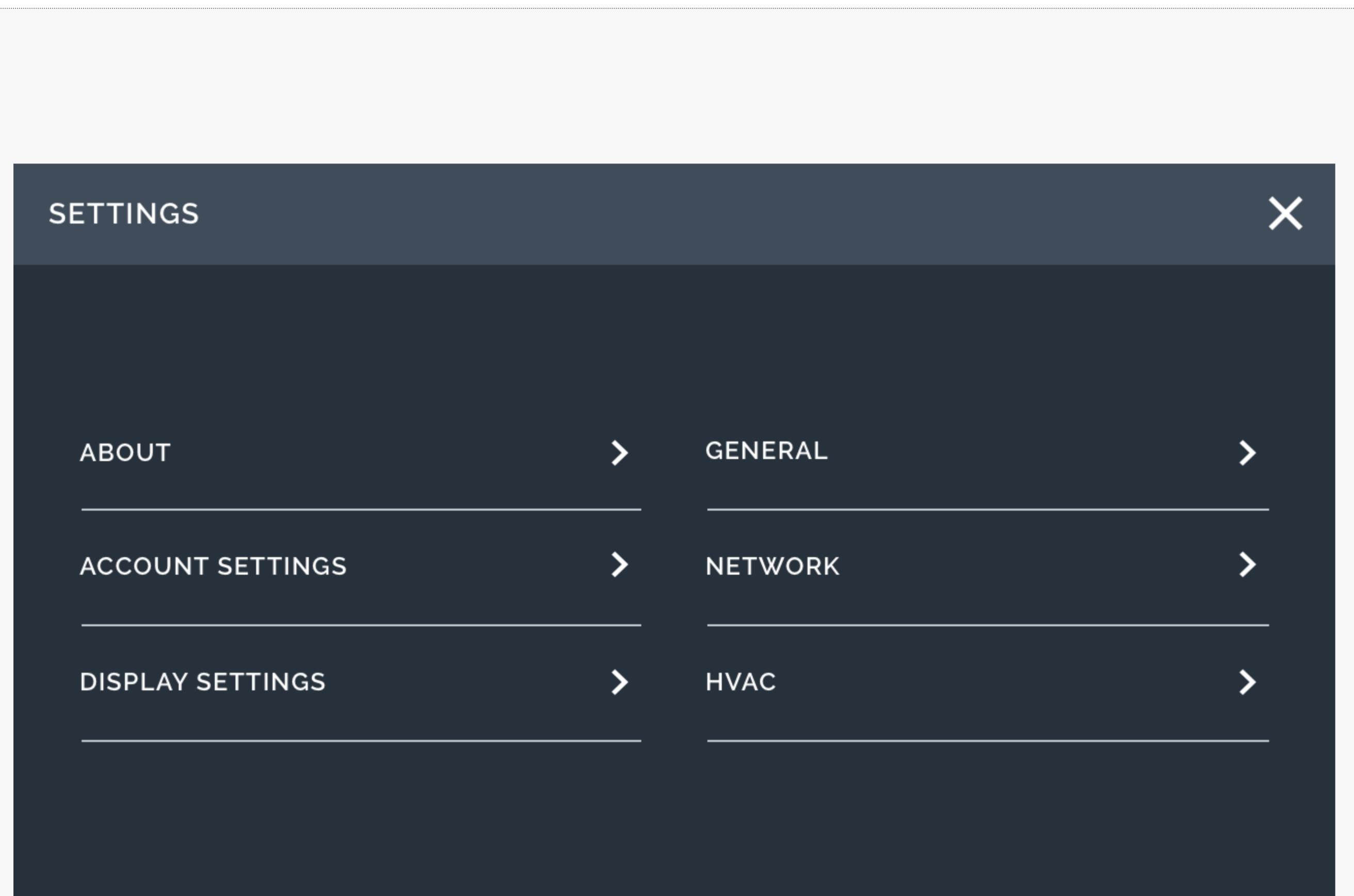
This is a view of the Sweet Spots screen when Sweet Spots / Averaging is switched off and averaging for individual temperature sensors are all switched off.

T10.3 - Sweet Spots - Empty



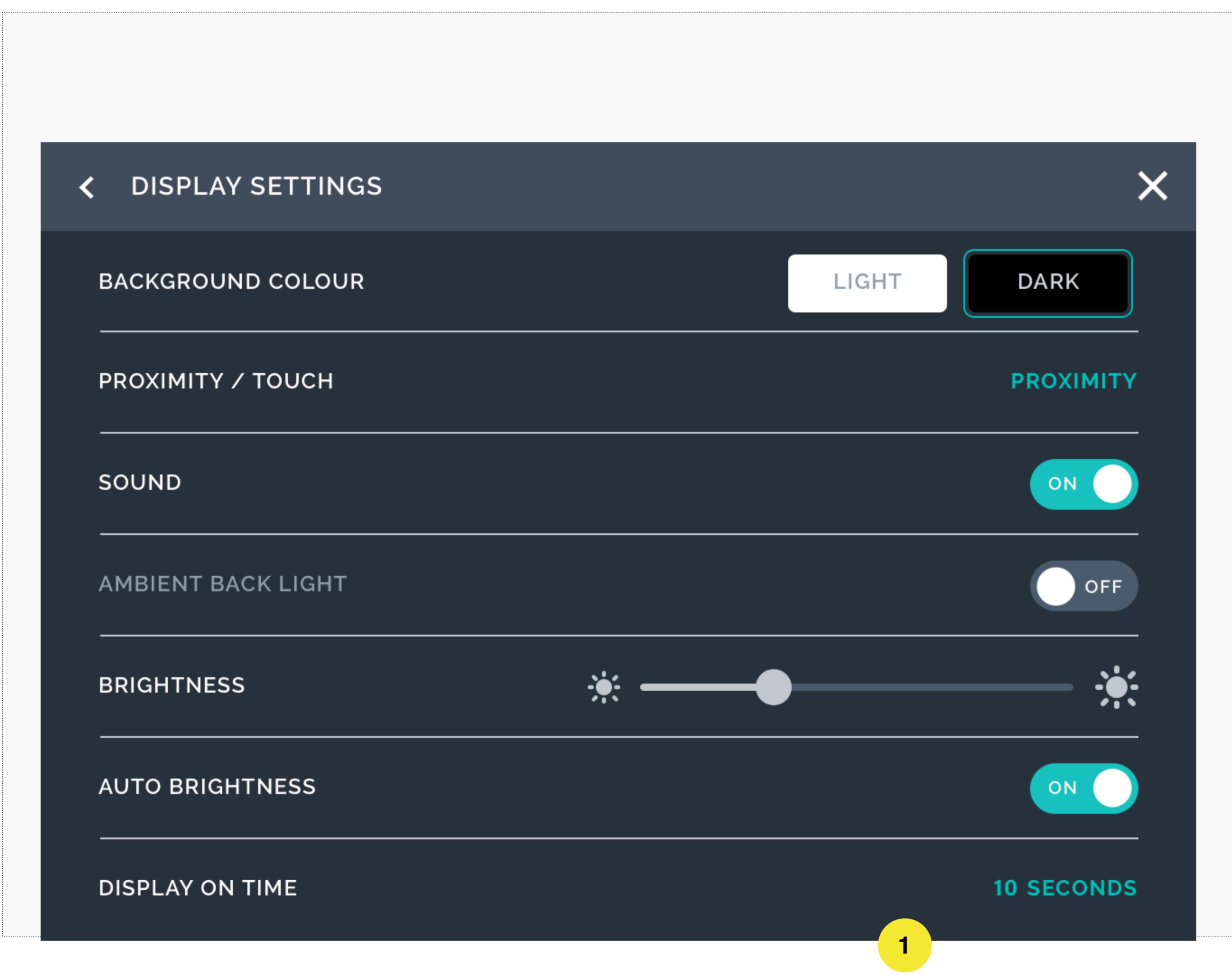
This screen shows the marketing dialogue that is presented when a user taps the Sweet Spot adjustment icon on the temperature panel of the main screen and they don't have any remote temperature sensors or additional thermostats installed.

T11.0 - Settings - Main



This is a view of the Main Settings screen which is accessed by tapping Settings in the hamburger menu (T7.0). This is a re-design of the existing thermostat screen. Please refer to Confluence for details on functionality.

T11.1 - Settings - Display

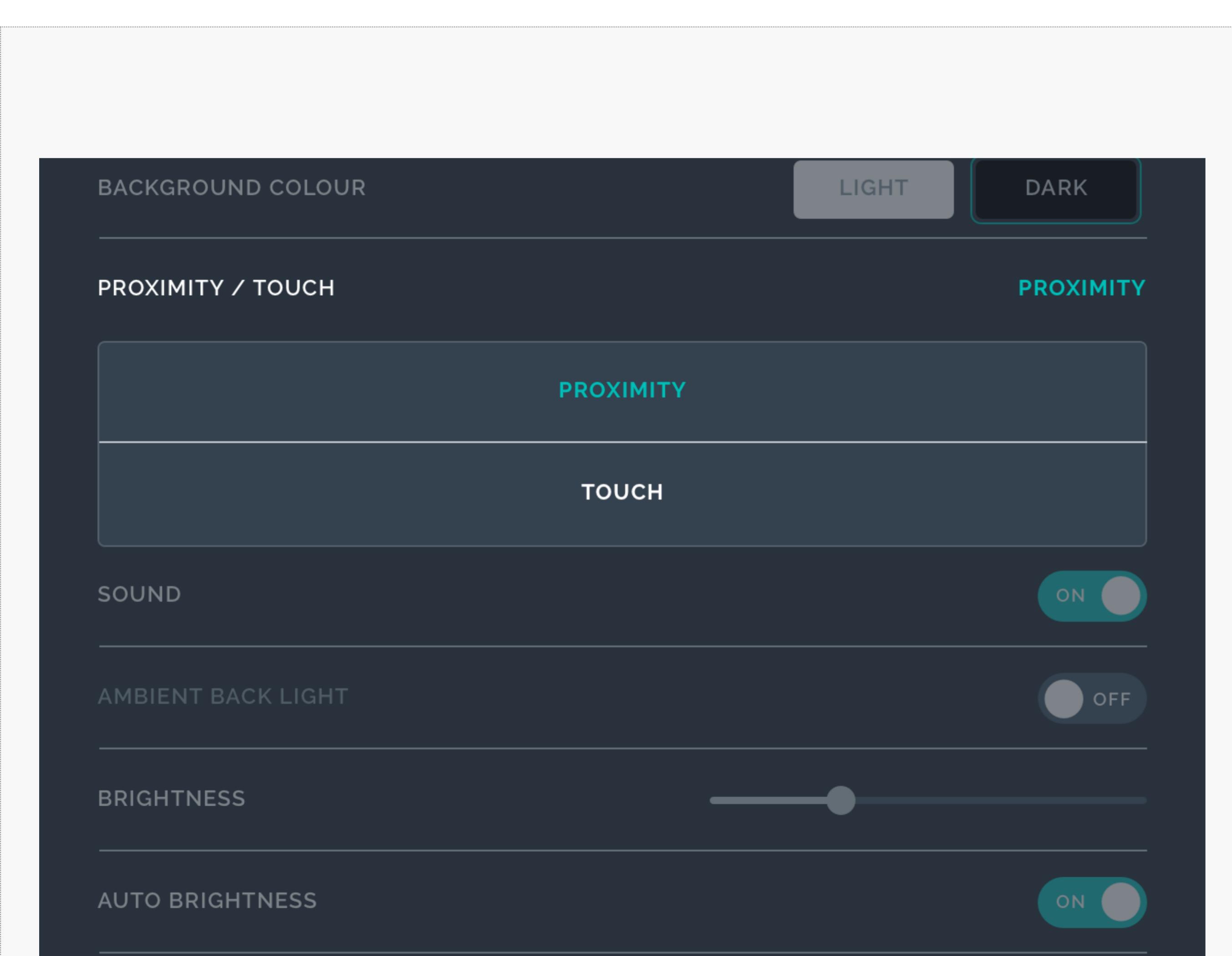


This is a view of the Display Settings screen which is accessed by tapping Display Settings on the Main Settings screen (T11.0). This is a re-design of the existing thermostat screen. Please refer to Confluence for details on functionality.

1

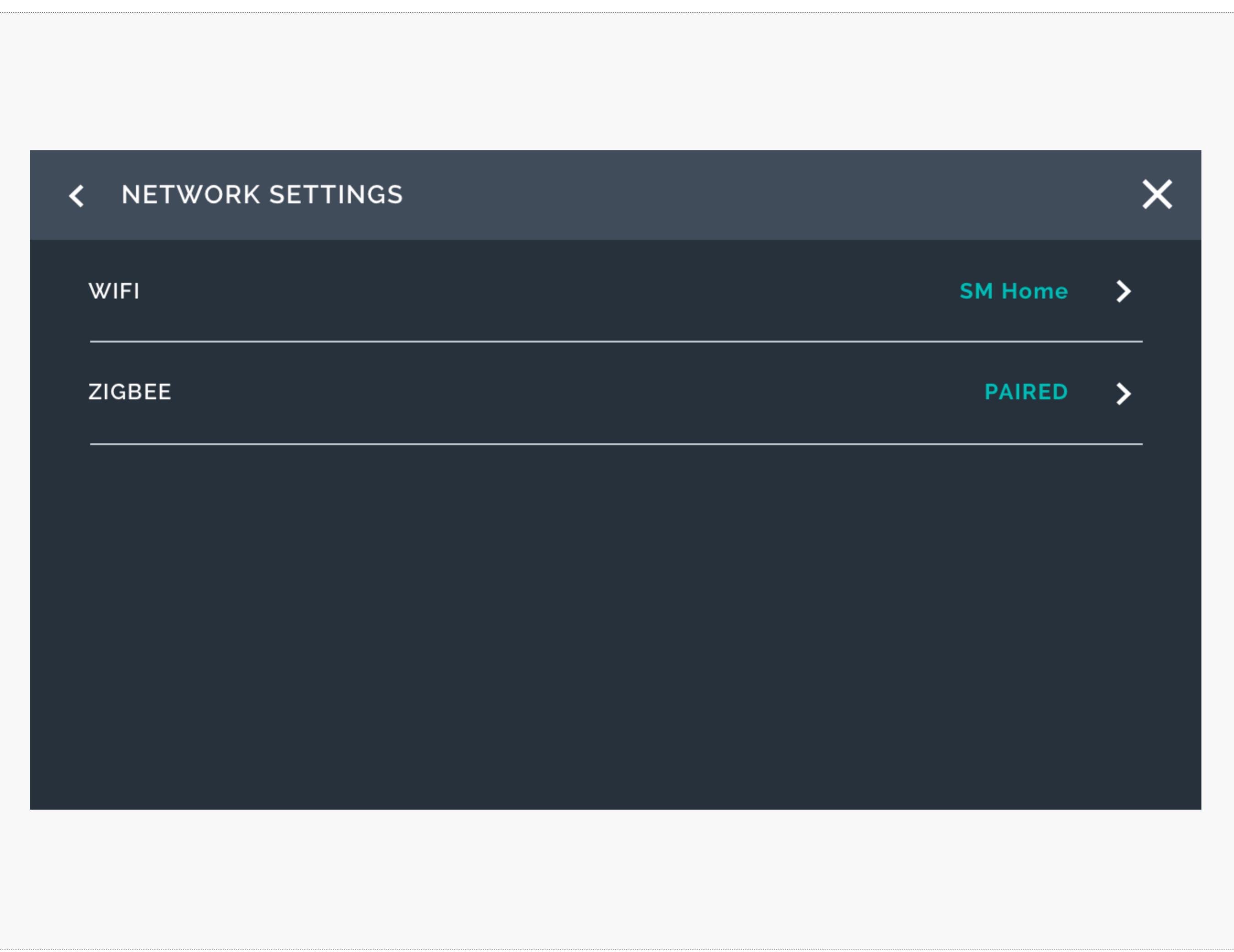
This screen is scrollable with additional settings options below "DISPLAY ON TIME" revealed on scroll.

T11.2 - Settings - Display (expanded)



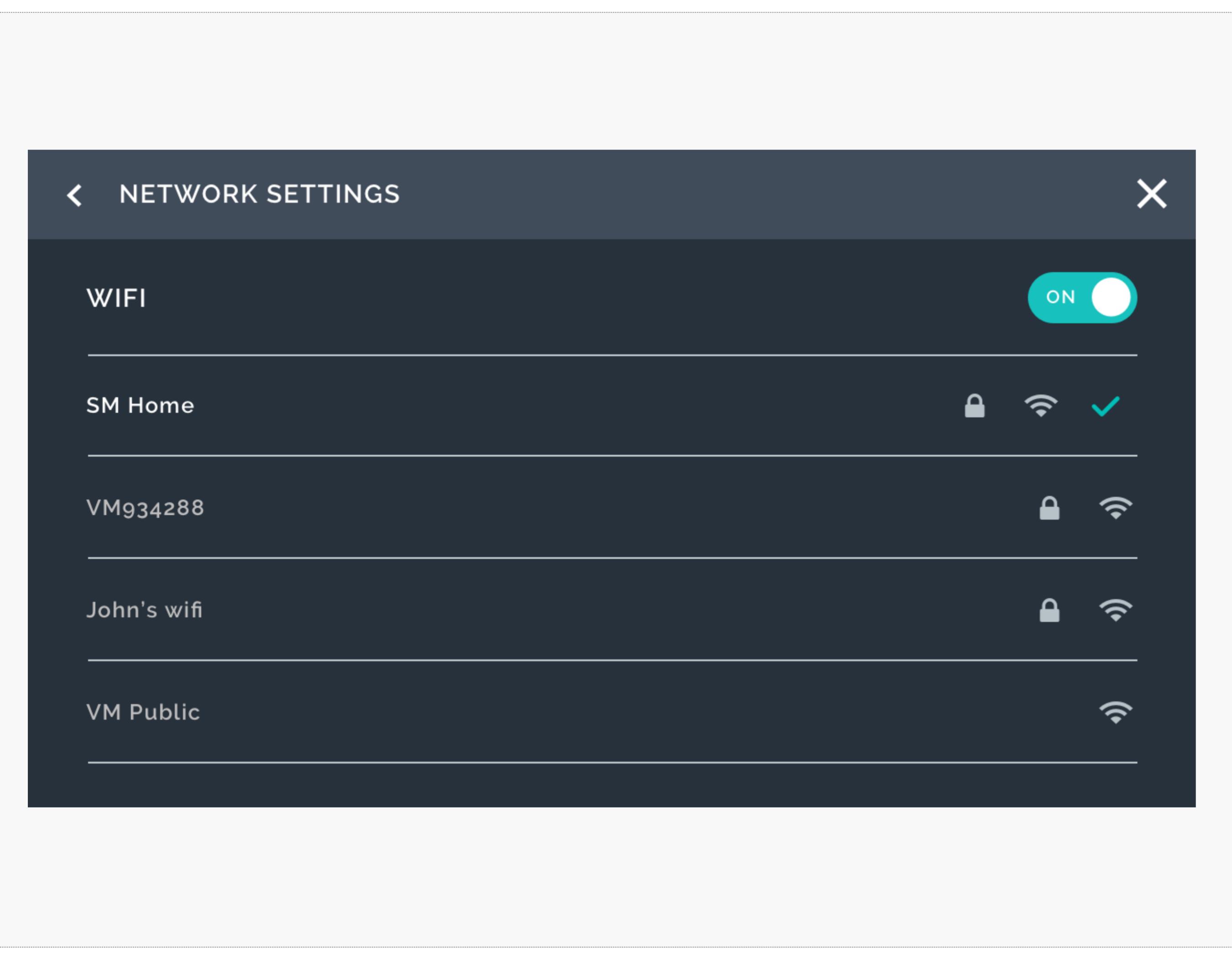
This screen shows an expanded view of the Proximity / Touch menu on the Display Settings screen.

T11.3 - Settings - Network



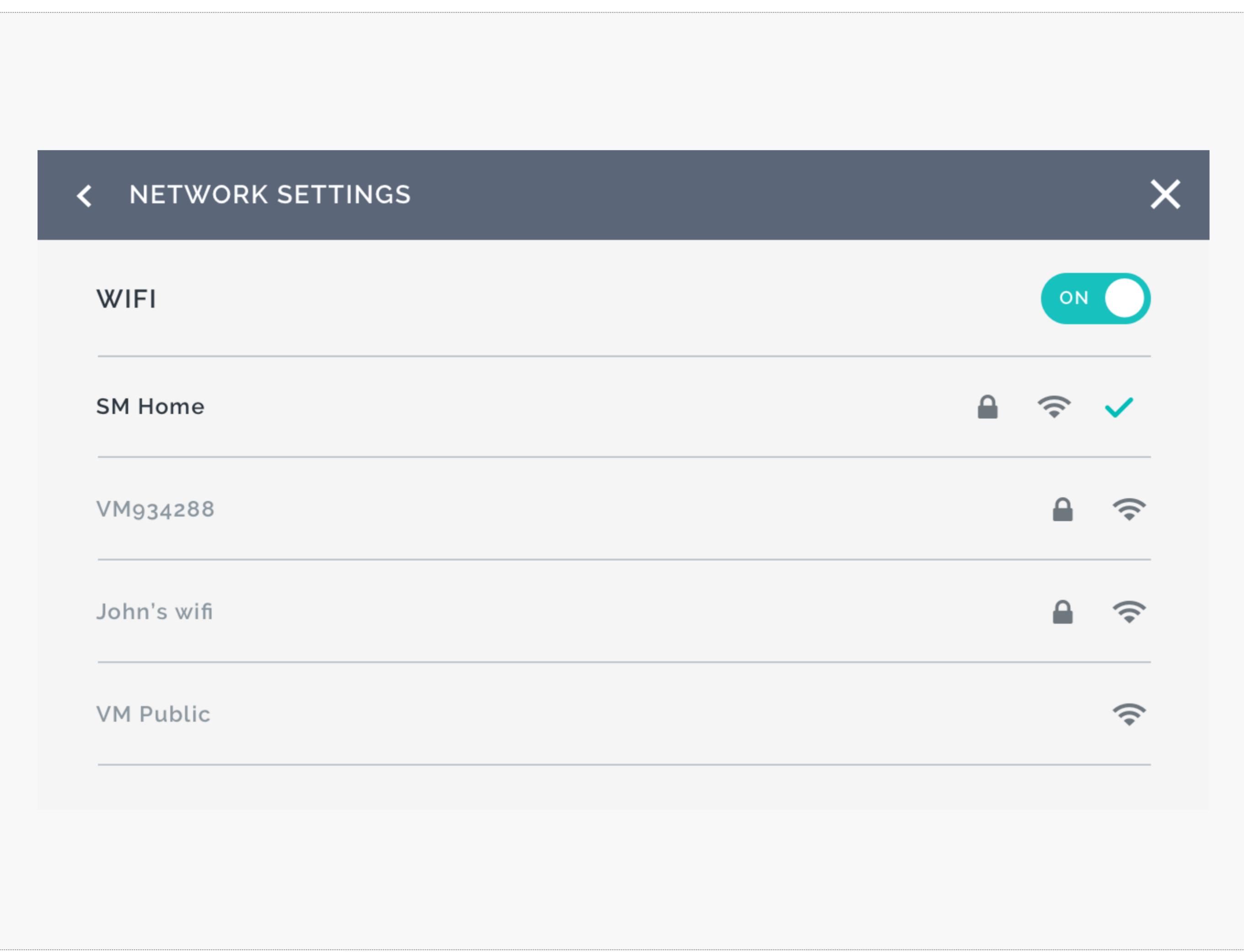
This is a view of the Network Settings screen accessed, via the Main Settings screen. This is a re-design of the existing thermostat screen. Please refer to Confluence for details on functionality.

T11.4 - Settings - Network - WiFi



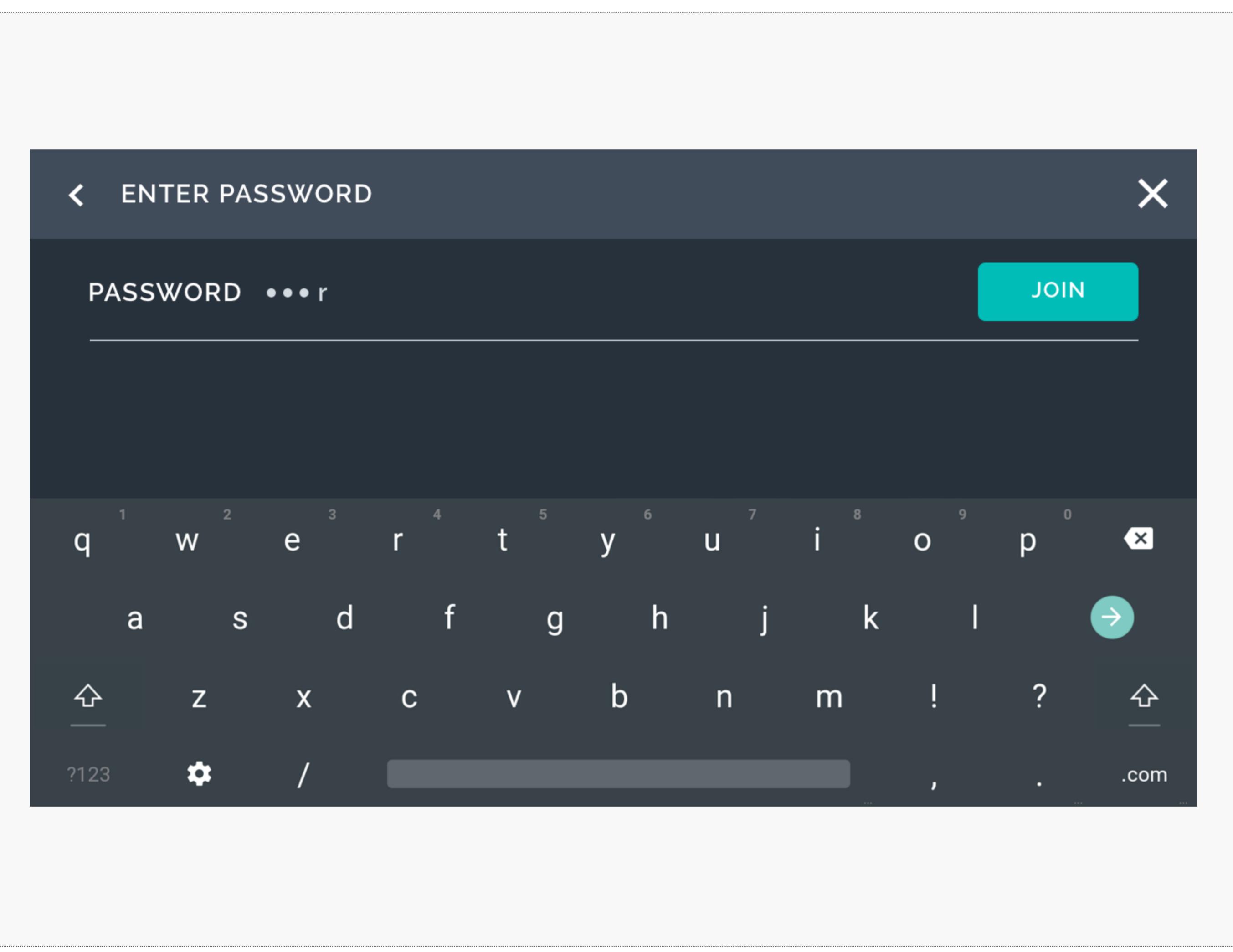
This is a view of the WiFi Network selection screen accessed via Network Settings. This is a re-design of the existing thermostat screen. Please refer to Confluence for details on functionality.

T11.5 - Settings - Network - WiFi - Light



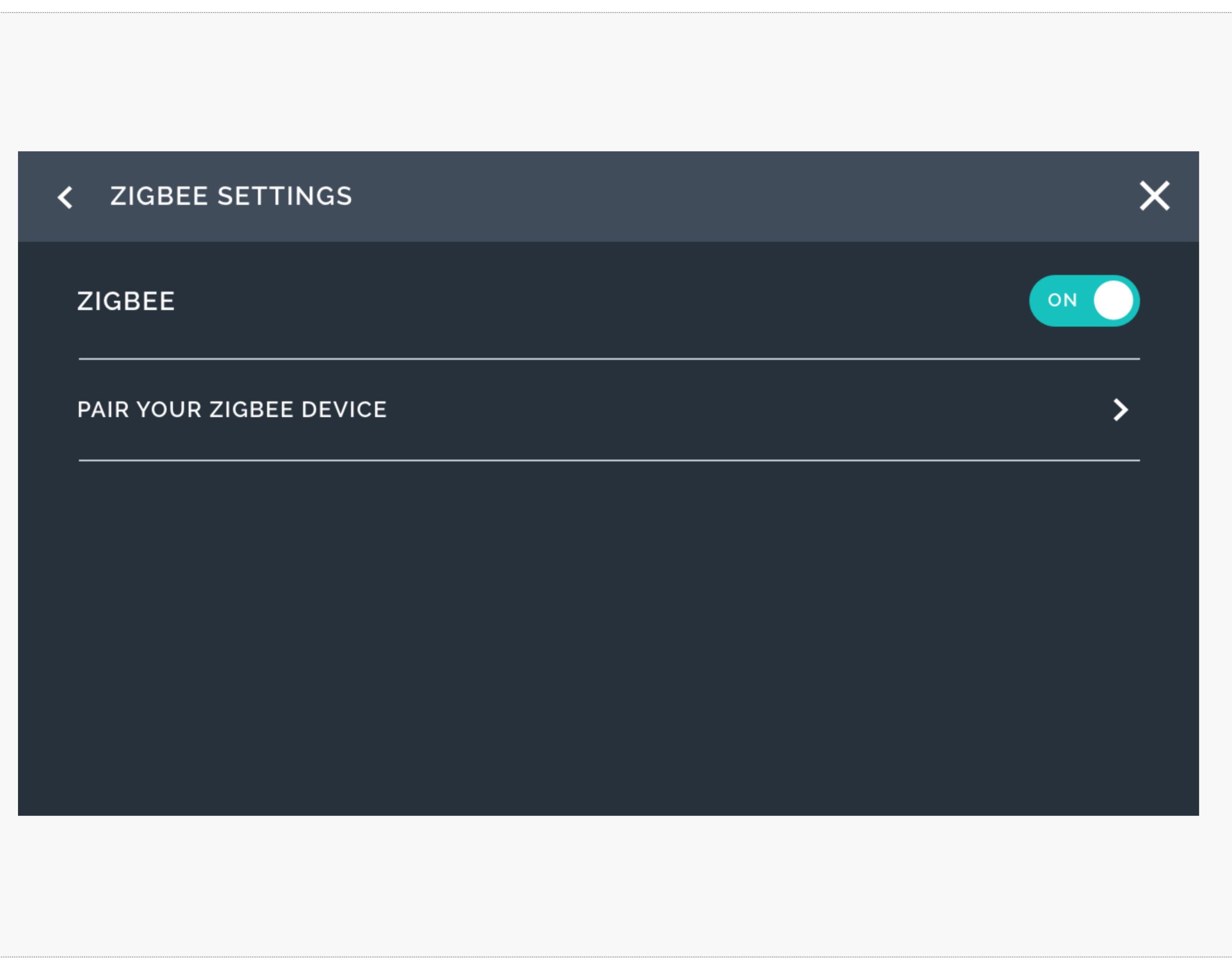
This is a view of the WiFi Network selection screen with a light background.

T11.6 - Settings - Network - WiFi - Password



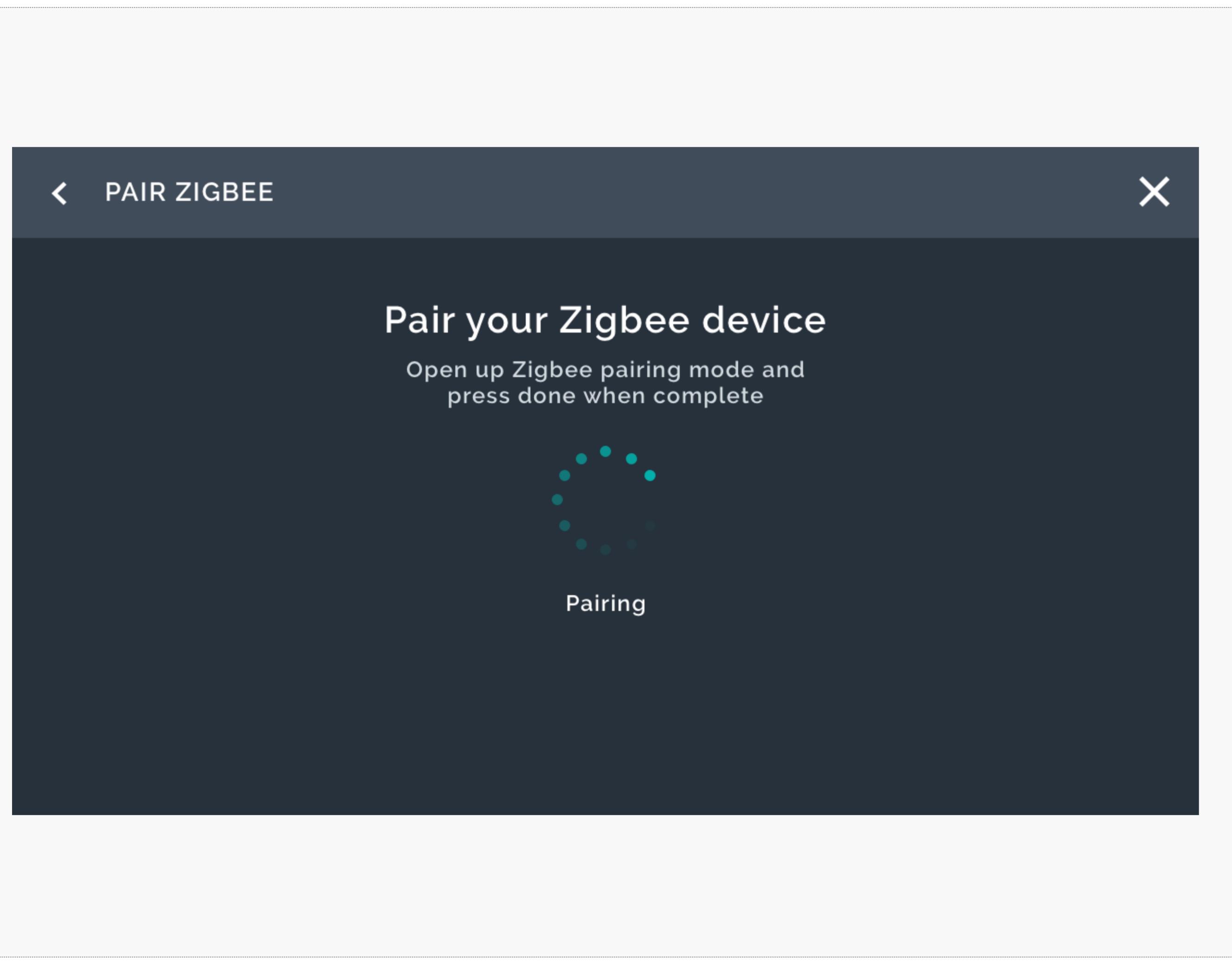
This is a view of the Enter Password screen which is displayed when connecting to a new WiFi network. This is a re-design of the existing thermostat screen. Please refer to Confluence for details on functionality.

T11.7 - Settings - Network - Zigbee



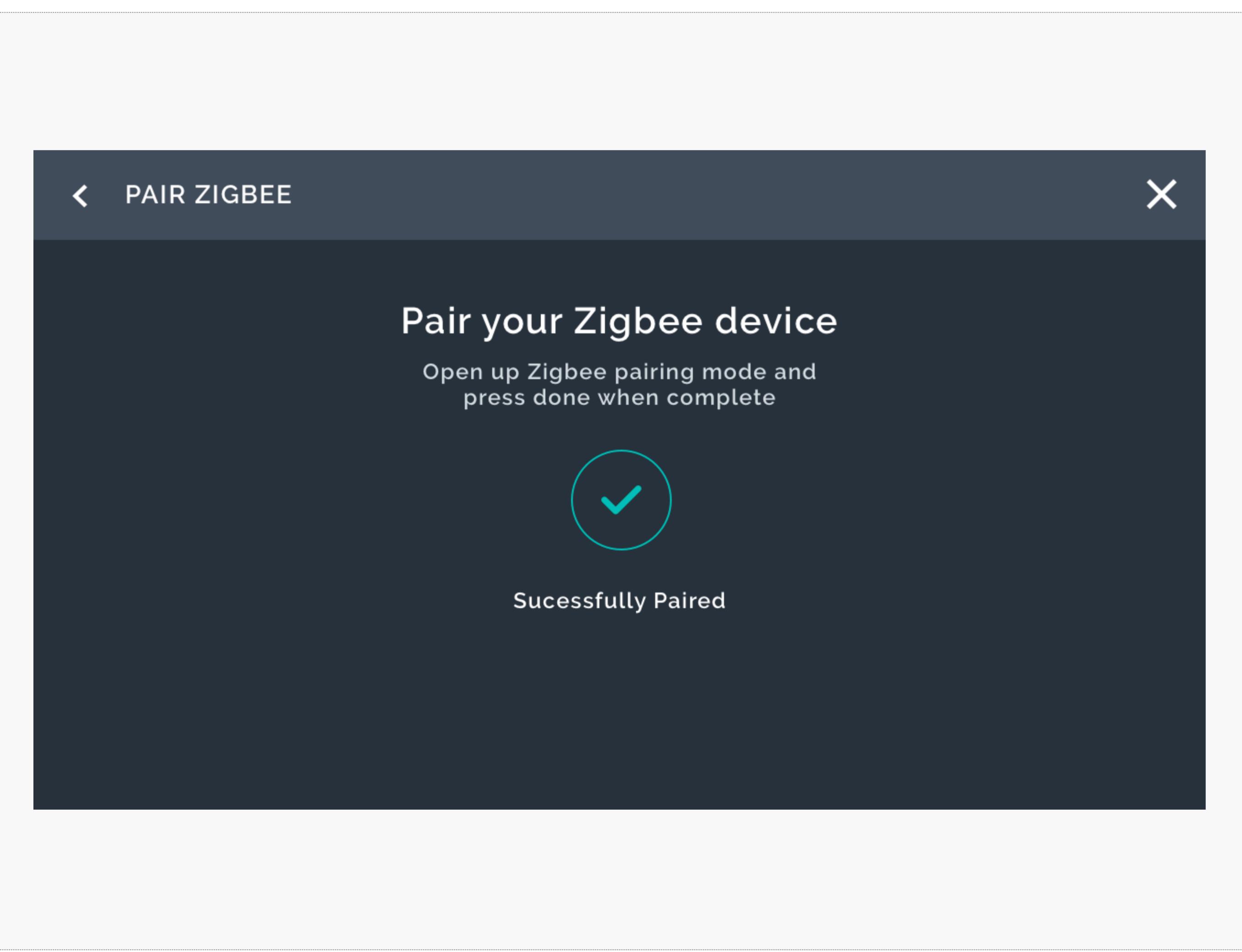
This is a view of the Zigbee Settings screen accessed via Network Settings. This is a re-design of the existing thermostat screen. Please refer to Confluence for details on functionality.

T11.8 - Settings - Network - Zigbee - Pairing



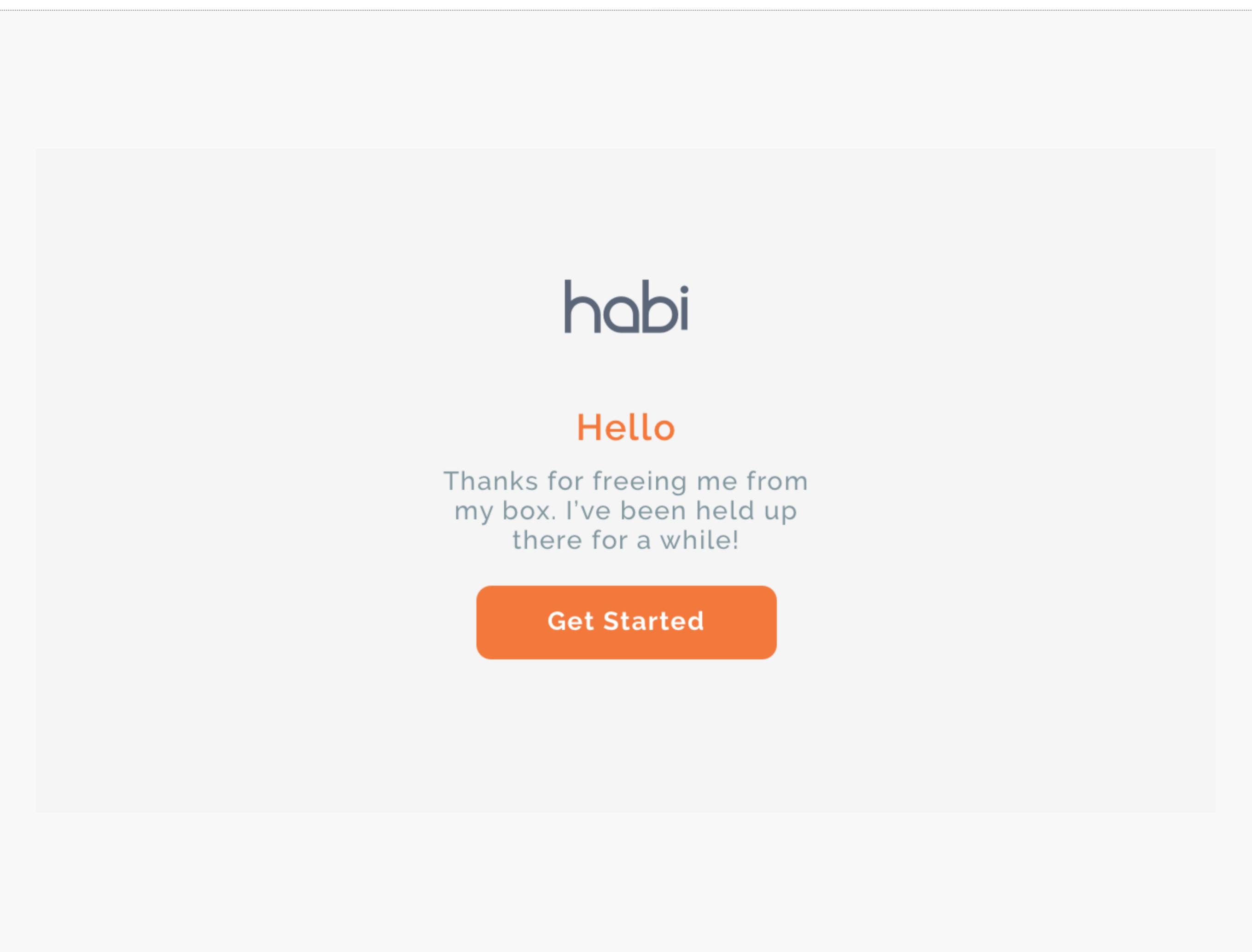
This is a view of the Zigbee device pairing screen accessed via the Zigbee option in Network Settings. This is a re-design of the existing thermostat screen. Please refer to Confluence for details on functionality.

T11.9 - Settings - Zigbee - Pairing - Complete



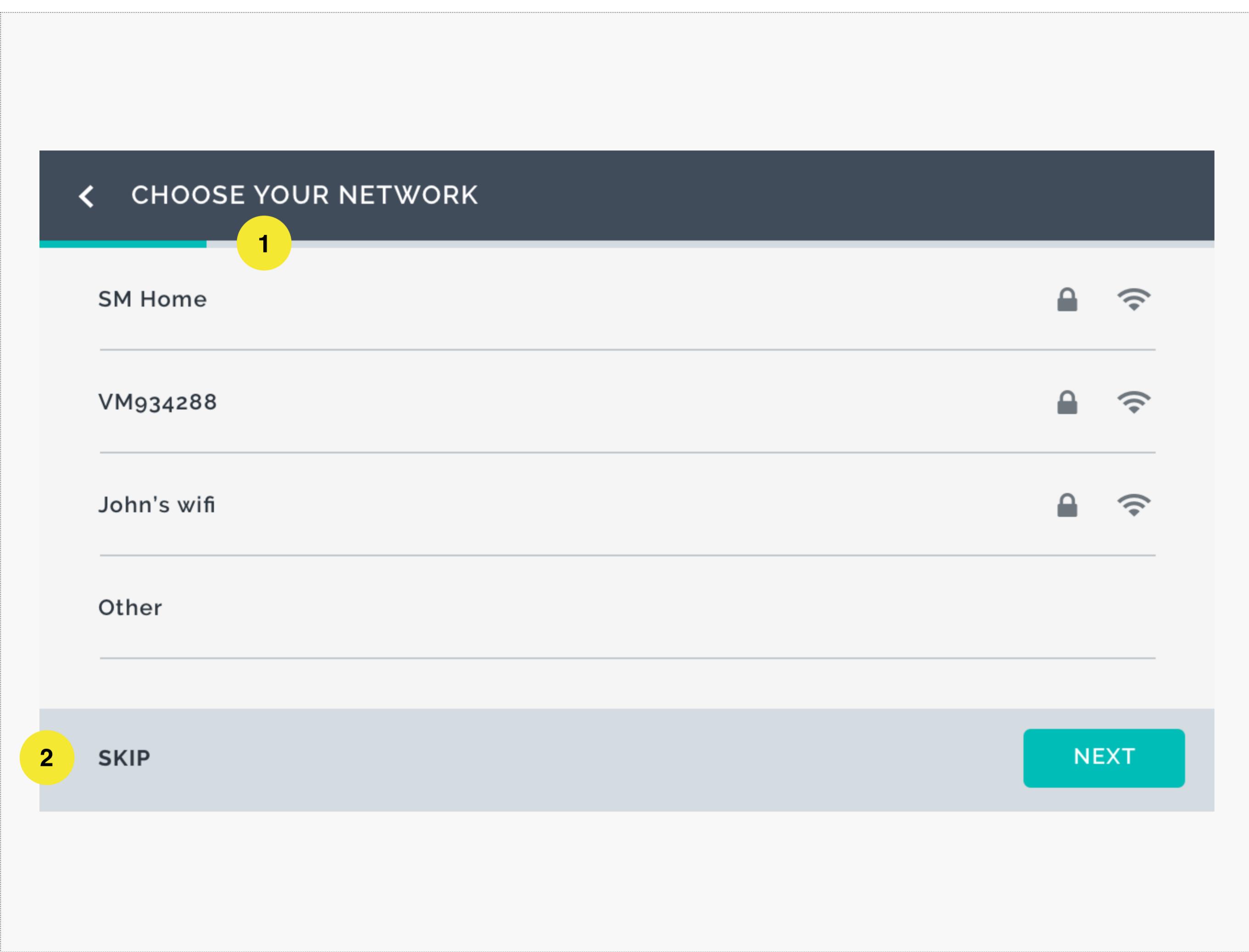
This is a view of the confirmation screen that is displayed on the successful pairing of a Zigbee device.

T12.0 - Setup - Welcome



This is a view of the thermostat Welcome screen. This is the initial greeting that is displayed to the user after powering up the thermostat for the first time (or after a factory reset).

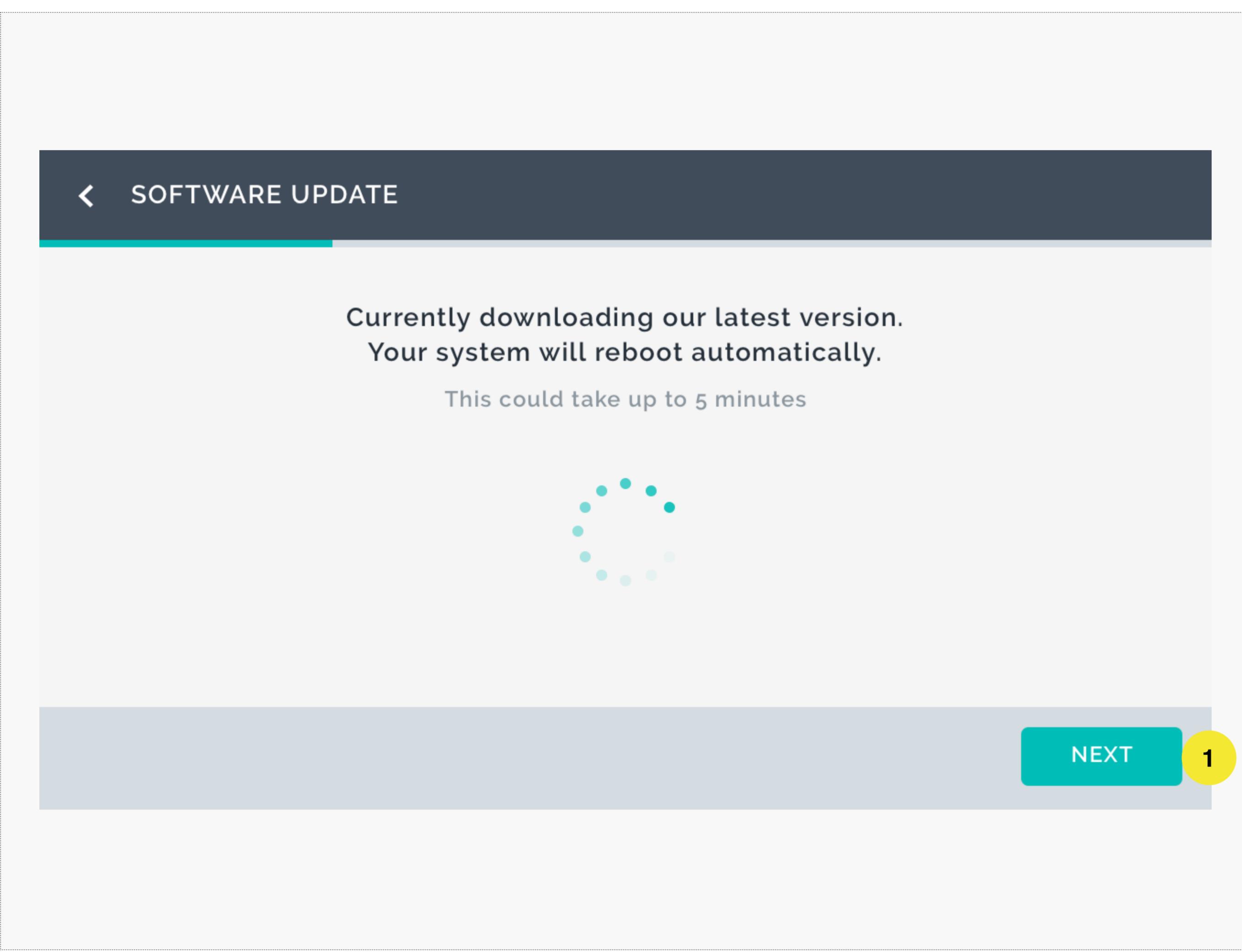
T12.1 - Setup - WiFi Settings



This is a view of the CHOOSE YOUR NETWORK screen where the user can connect their thermostat / gateway to a Wifi network as part of the thermostat / gateway setup process. This is a re-design of the existing thermostat screen and is provided with a light background. Please refer to Confluence for details on functionality.

- 1 The user has the option to Skip the process of connecting to a wifi network.
- 2 A progress indicator provides a visual clue as to how far the user is in the overall setup process. The progress indicator is displayed on all setup screens.

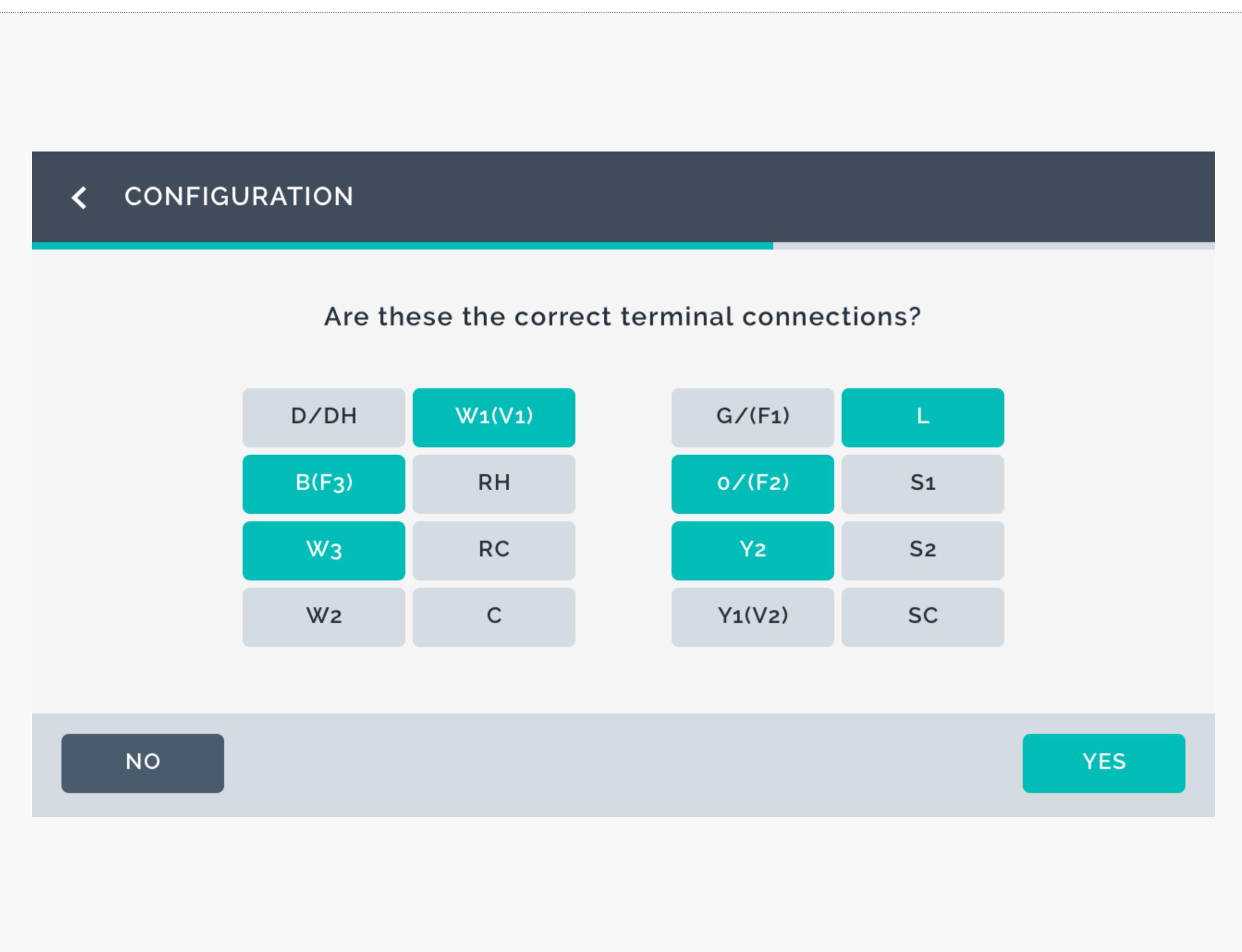
T12.2 - Setup - Downloading



This is a view of the thermostat screen display while it downloads the latest software. This is a re-design of the existing thermostat screen and is provided with a light background. Please refer to Confluence for details on functionality.

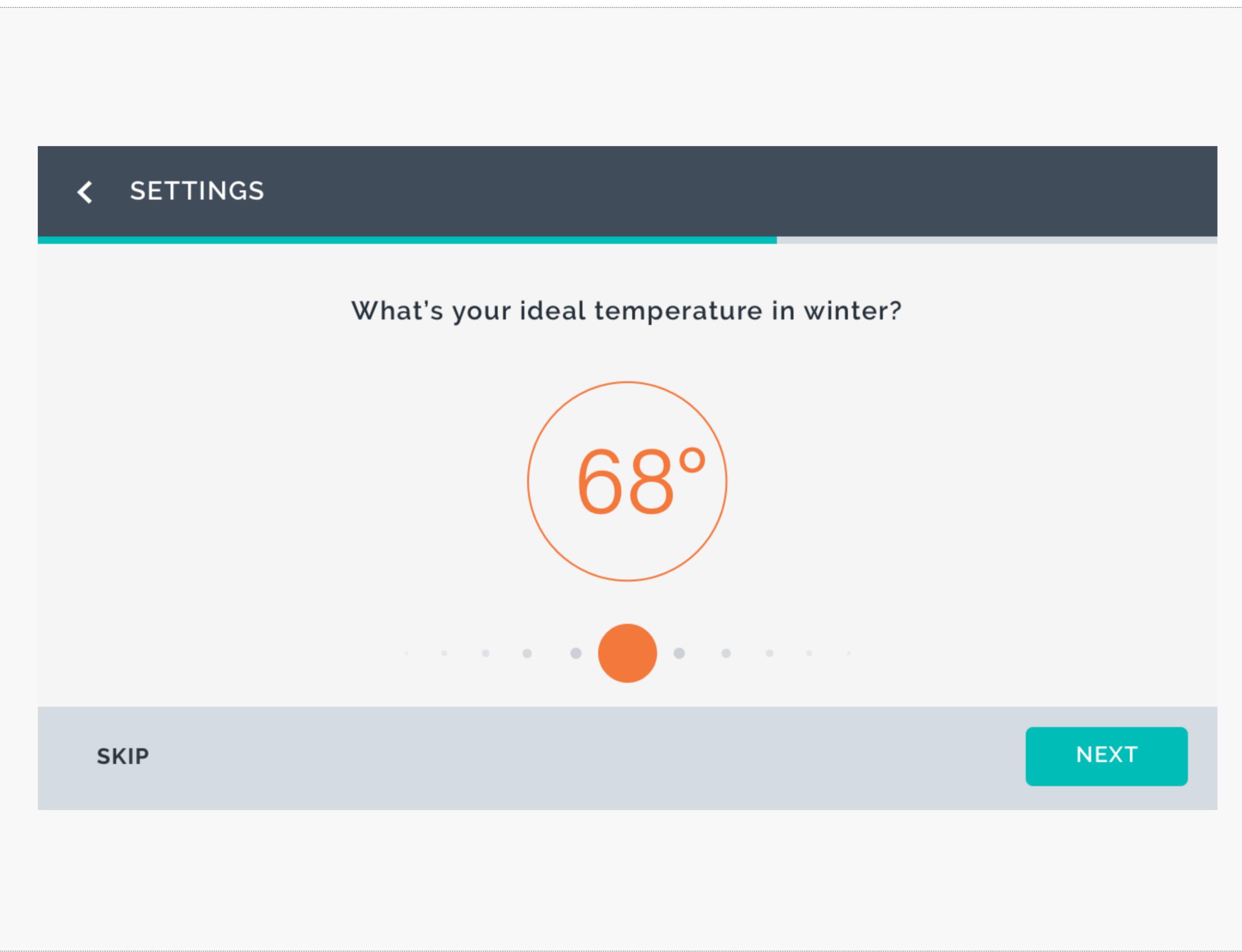
- 1 The NEXT button is only display once the software update is complete.

T12.3 - Setup - HVAC Configuration



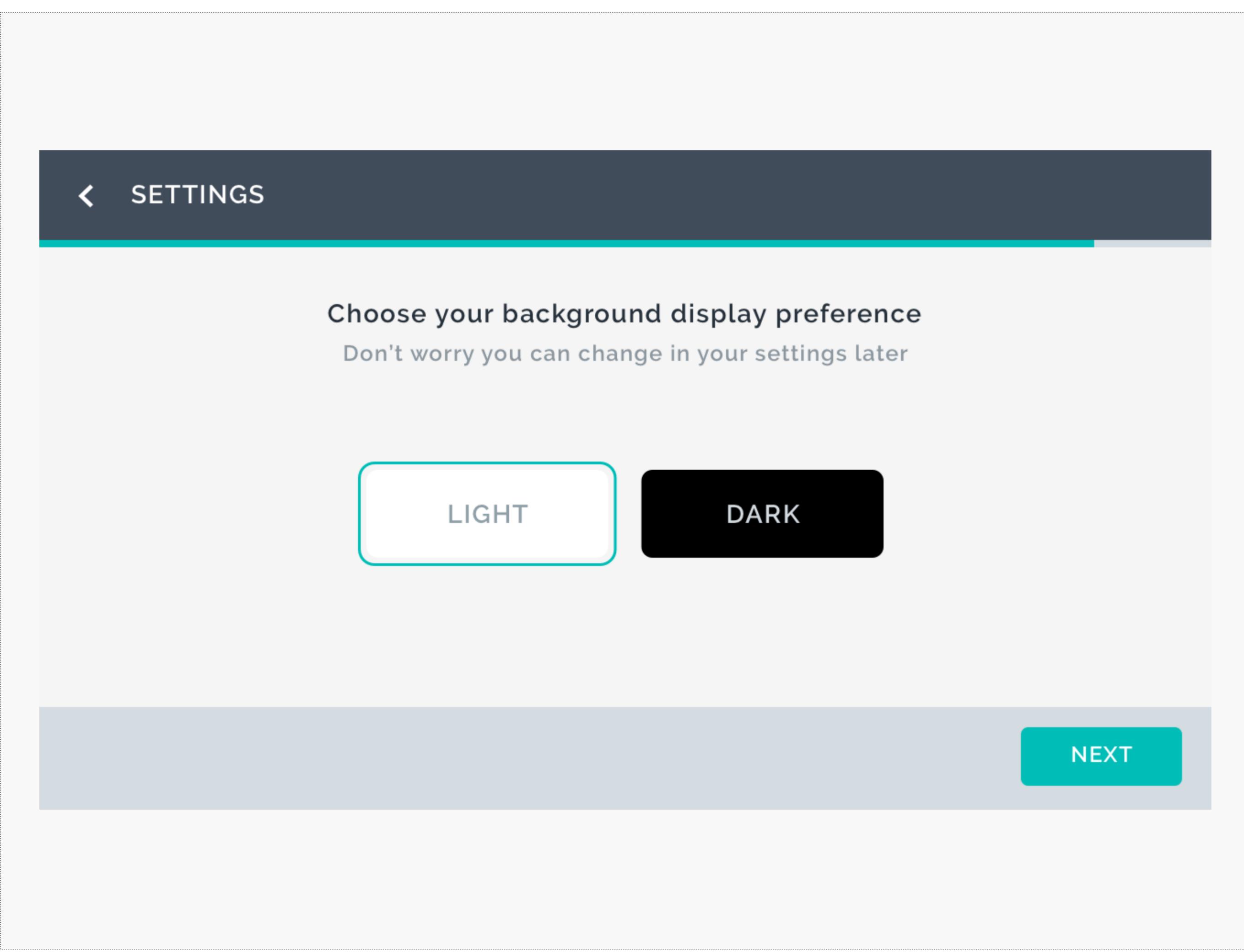
This is a view of the HVAC terminal configuration screen that is displayed during setup of the thermostat. This is a re-design of the existing thermostat screen and is provided with a light background. Please refer to Confluence for details on functionality.

T12.4 - Setup - Temperature



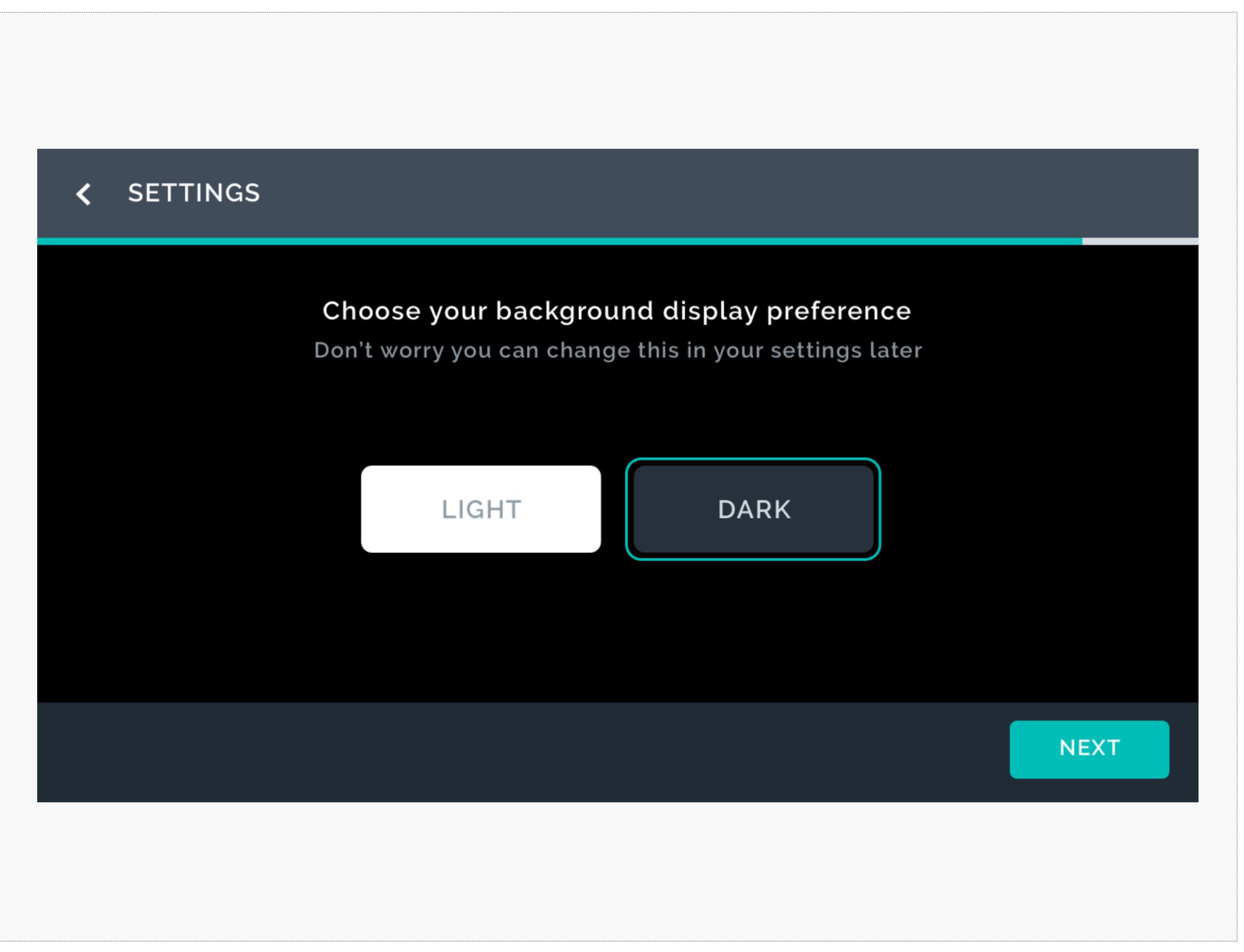
This is a view of the heating preferences screen that is displayed during setup of the thermostat. This is a re-design of the existing thermostat screen and is provided with a light background. Please refer to Confluence for details on functionality.

T12.5 - Setup - Display Preference - Light



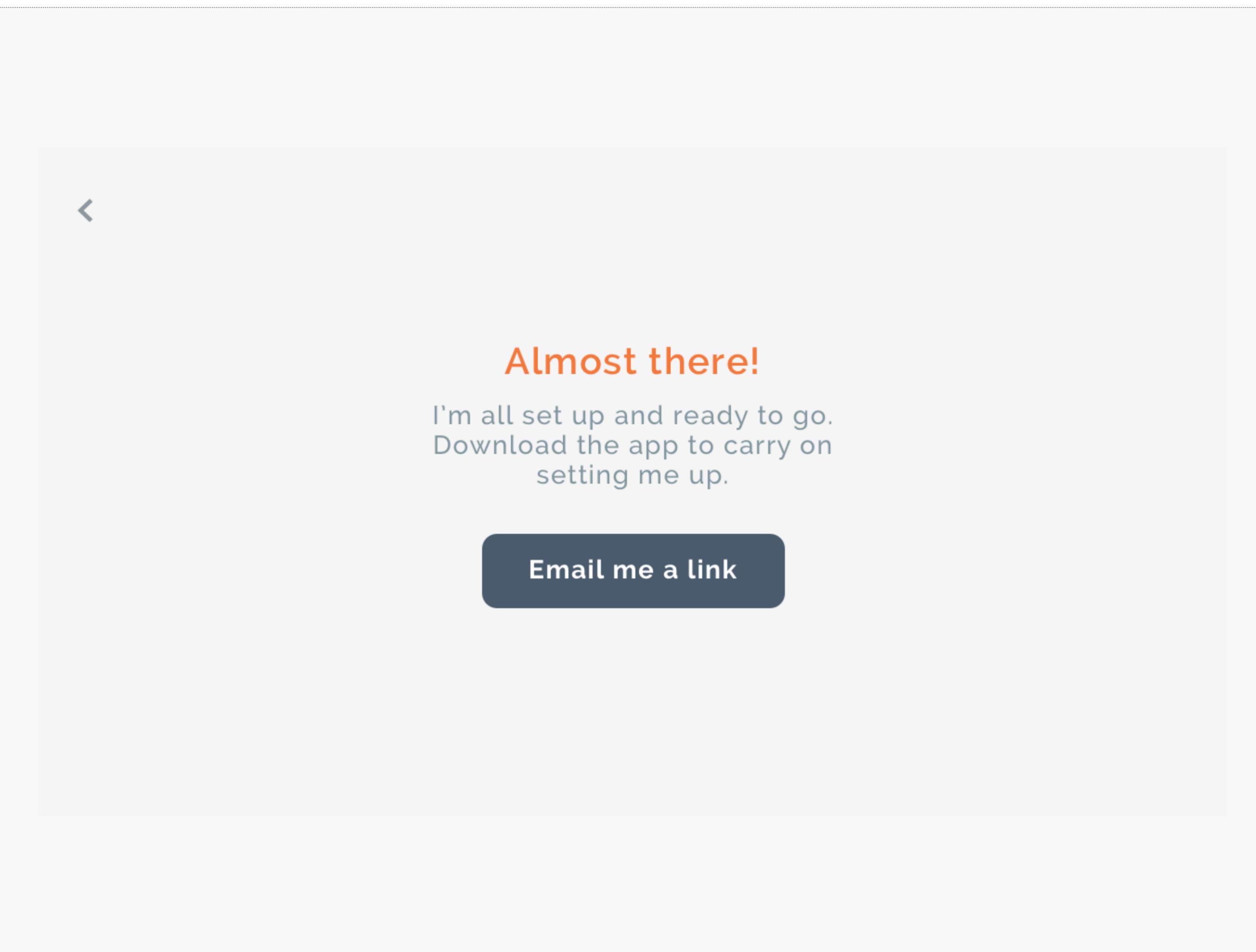
This is a view of the background display colour preference selection screen. This screen has a light background and is displayed when the "Light" display preference has been selected.

T12.6 - Setup - Display Preference - Dark



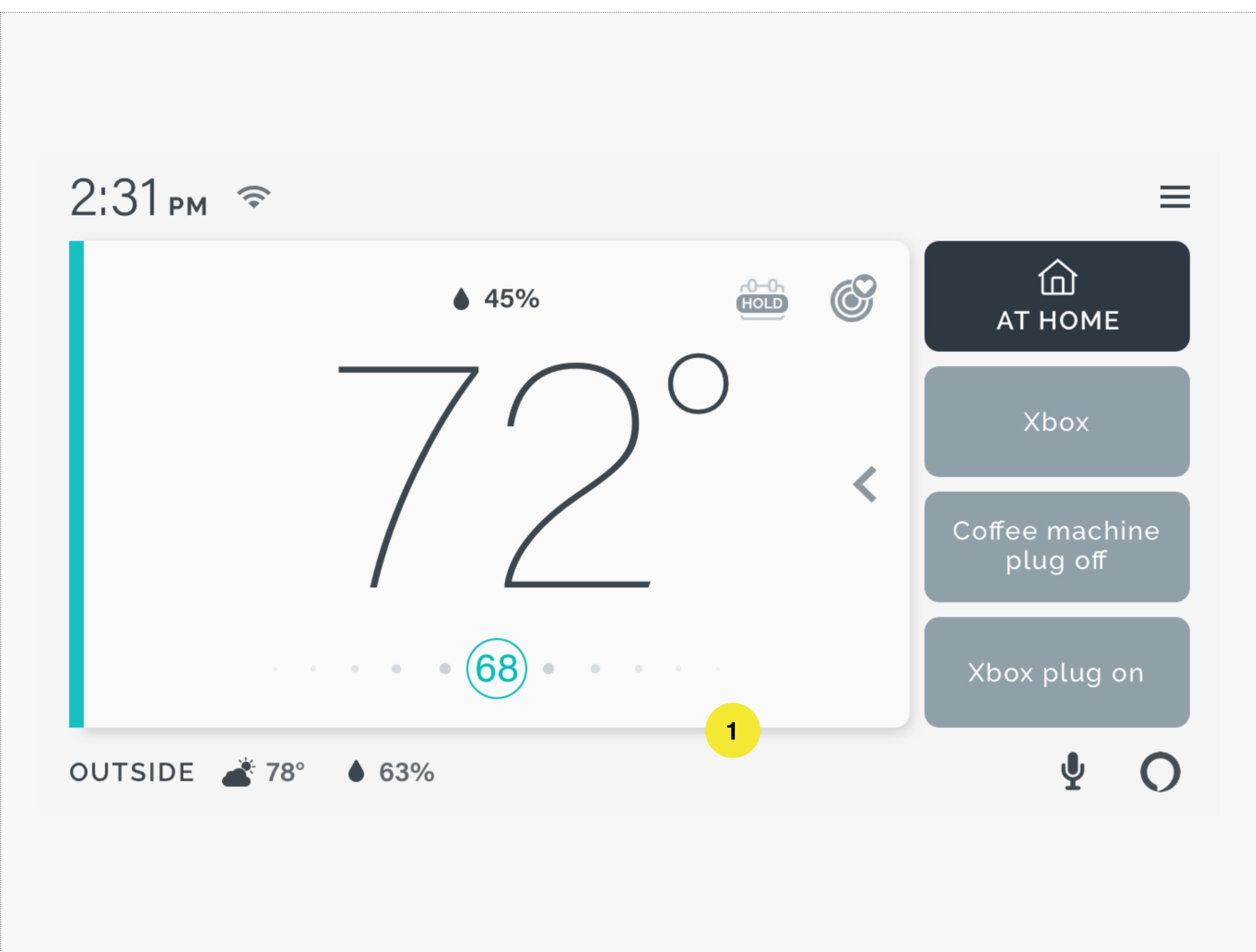
This is a view of the background display colour selection screen. This screen has a dark background and is displayed when the "dark" display preference has been selected.

T12.7 - Setup - Complete



This is a view of the Setup complete screen that is shown to new users to encourage them to finish the set up of the thermostat on the app companion app. Existing users will be taken to the home screen of the thermostat.

T13.0 - Thermostat Main Screen Variations - Light

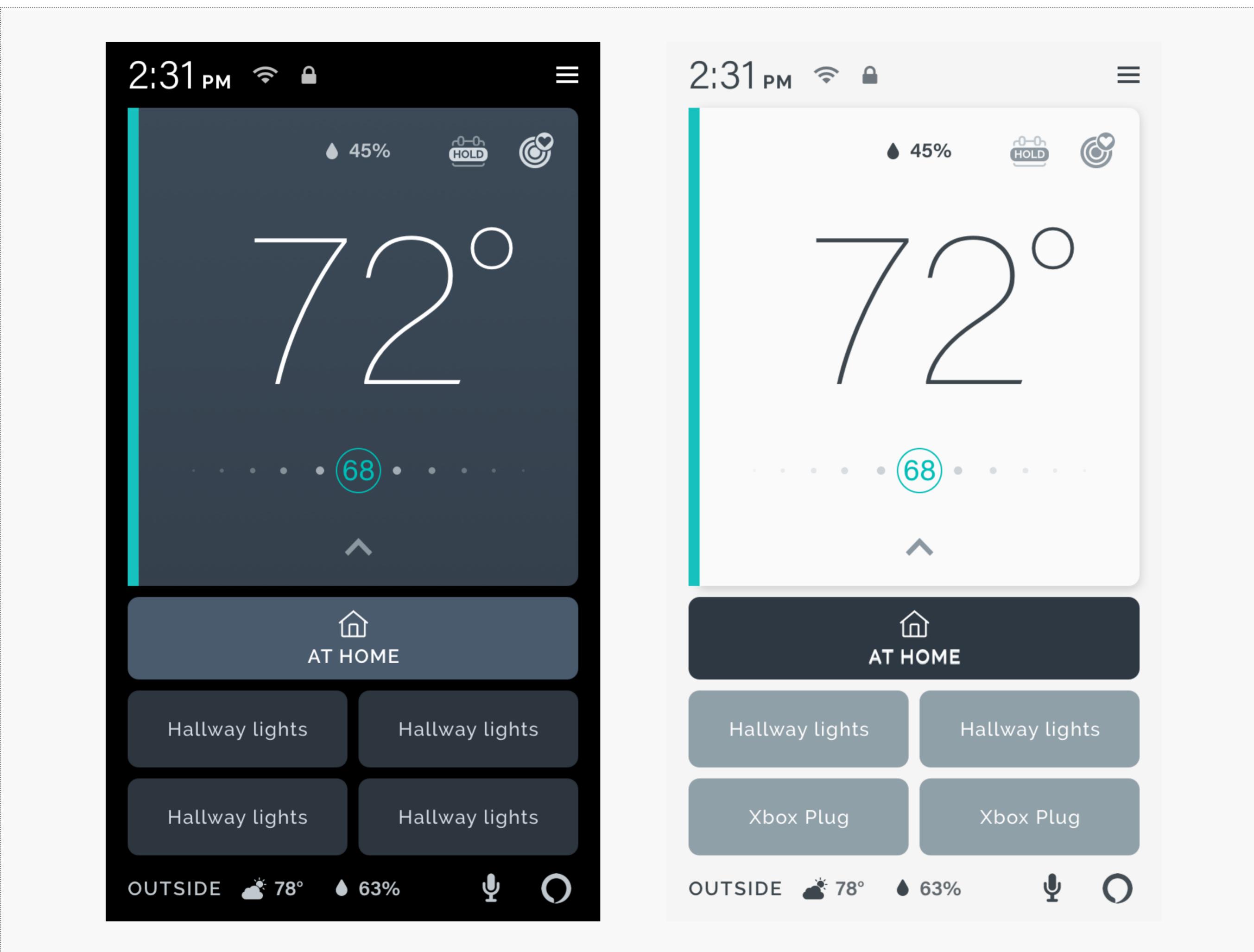


This light version of the thermostat main screen is displayed when the user has manually selected the light theme via the thermostat's settings.

1

The light version of the design incorporates shadow to further differentiate the temperature panel from the light grey background.

T13.2 - Thermostat Main Screen Variations - Portrait - Dark & Light



This is the default view of the main screen of the thermostat in portrait view, in both dark and light colour schemes.

habi Gateway Thermostat

September 1, 2017