

REPURE PLATFORM DRIVER FOR CRESTRON HOME



Revision: 1.04

Date: 02 July 2024

CRESTRON HOME ONLY

This document describes the configuration of the RePure Platform Driver for Crestron Home only.

MODULE DESCRIPTION

This platform driver connects to RePure's cloud platform and provides detailed room-by-room views of air quality, along with a dashboard for viewing metrics and notifications across all rooms. The dashboard also comes with Purify Air and Away actions that can be linked to any other devices on the processor via programmable events.

INSTALLATION PREREQUISITE

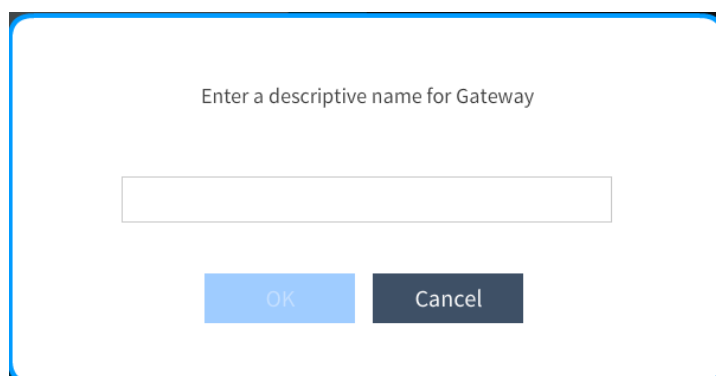
Adding the RePure Platform Device

After importing the driver, the RePure driver will be found under:

Devices > Platform > RePure

Ensure a room is selected, and then click on the '+' against the Gateway. The room can be ANYWHERE in the system and there will not be a visual tile added for the gateway device. To keep things organised you could add this device to a plant or equipment room.

You will be asked to provide a descriptive name for the platform driver – this can be anything you like.



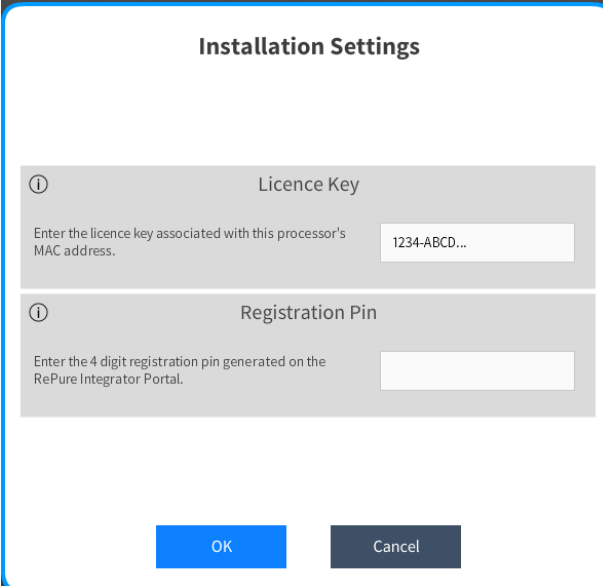
Enter a descriptive name for Gateway

OK Cancel

The first installation setting will be the licence key that was emailed to you with your order acknowledgement. The same key should be used in each RePure platform in the system (though different Crestron Home systems will require different licence keys). If you do not enter a valid licence key here, the system will function for 1 hour and then control will be suspended. The licence key can be entered at any time after initial setup without having to reconfigure.

You will also need to enter a 4 digit registration pin. This pin must be acquired through the RePure Integrator Portal:

<https://pro.repure.io/>



The 'Installation Settings' dialog box contains two input fields. The first, 'Licence Key', has a placeholder '1234-ABCD...'. The second, 'Registration Pin', is empty. Both fields have information icons to their left. At the bottom are 'OK' and 'Cancel' buttons.

Click on Integrations > Home Automation Platform > Crestron and input the mac address of the Crestron processor you are installing the driver on. This will generate the 4 digit pin. Make sure to enter it into the driver installation settings and to press OK before the pin expires. This pin is used to fetch a permanent token for linking the processor to RePure.

Integrations

+ Add Integration

Integration

Device ID

Actions

Add Device

Category

Home Automation Platform

Brand

Crestron

Add Crestron Device

STEP 1

Enter you Crestron Home MAC address and click on Generate PIN

STEP 2

You will be provided a 4 digit PIN which you will enter on the setup stage of RePure plugin on Crestron Home

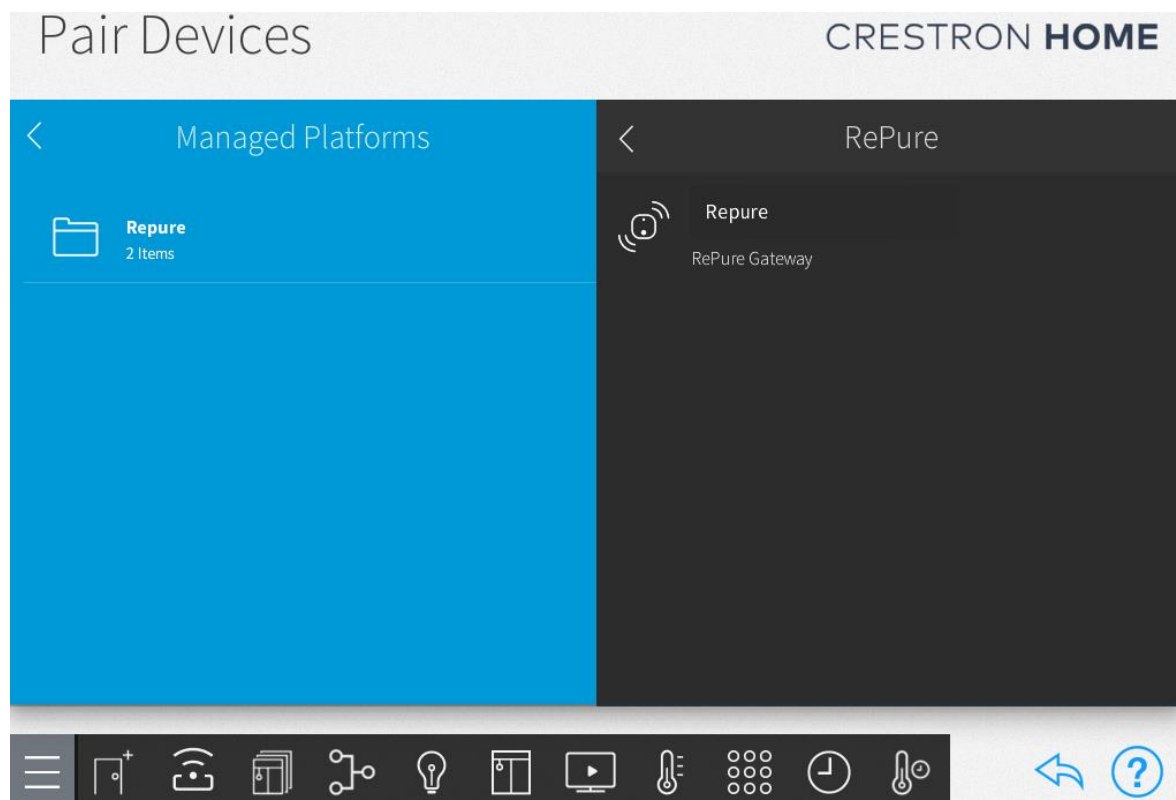
MAC Address

112233445566

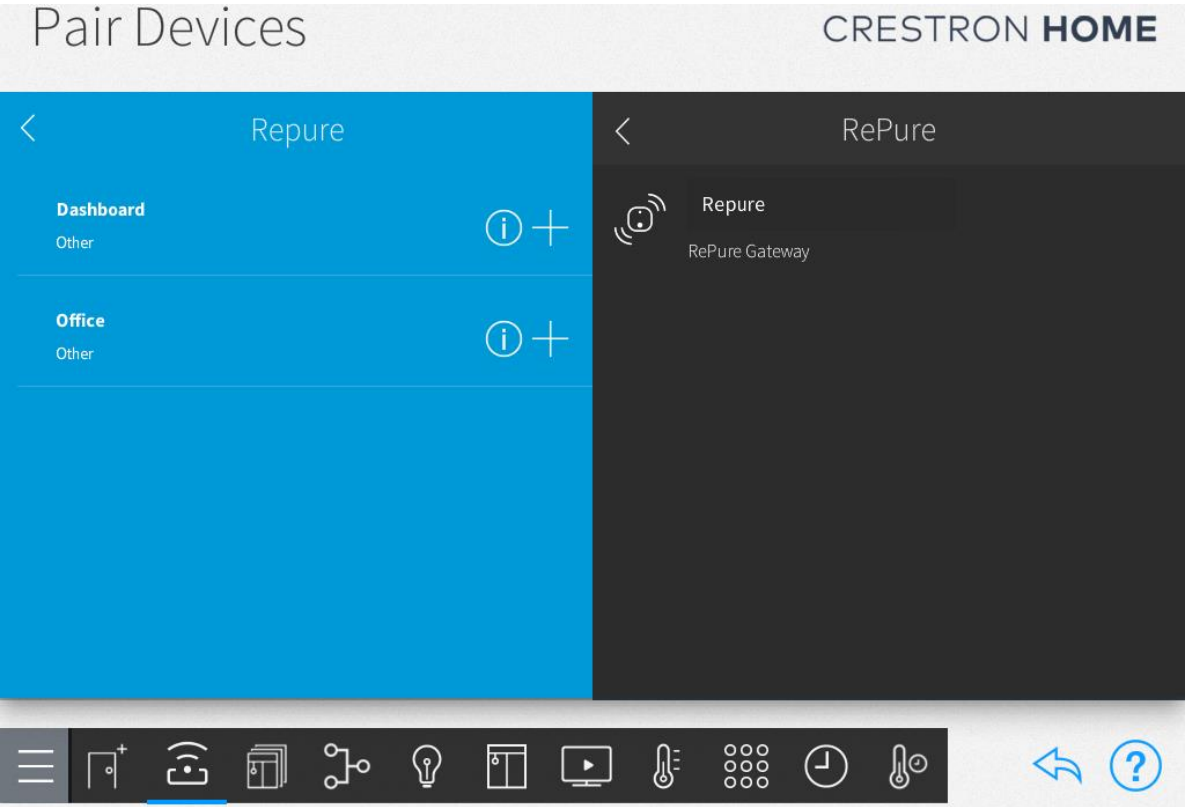
Cancel

Generate PIN

A folder containing the platform's paired devices will appear under Managed Platforms If the installation has been successful.



In this folder you will find the dashboard tile and a tile for each room in the RePure setup.



Re-Installation

The permanent token is lost when the platform driver is uninstalled. This means that the processor has to be removed and then readded through the RePure Integrator Portal in order to generate a new 4 digit registration pin.

Integrations

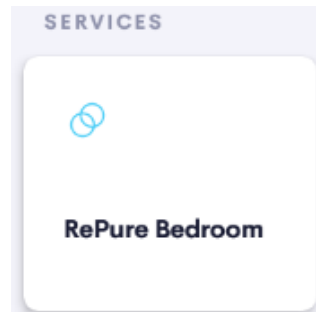
+ Add Integration

Integration	Device ID	Actions
crestron	112233445566	...
		Delete

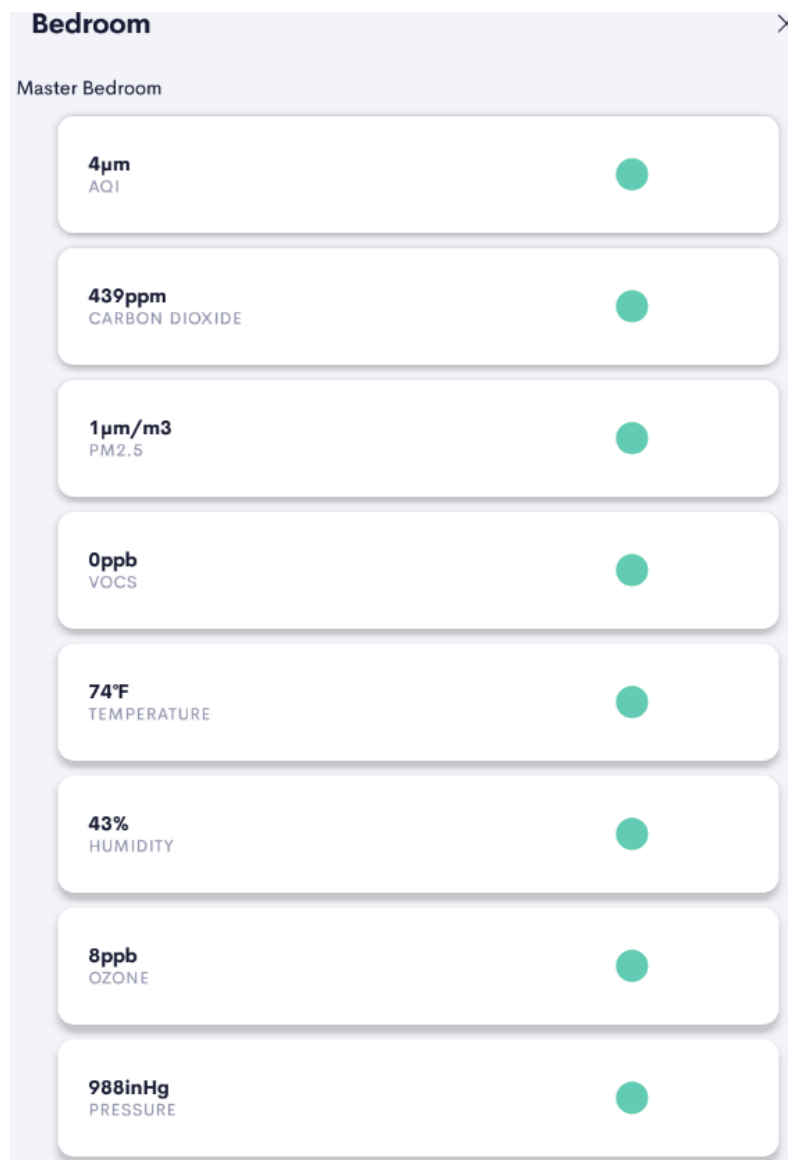
ADDING THE TILES

Room Tiles

There will be a room tile for each room in the connected RePure setup. Room tiles are shown in room views when added.

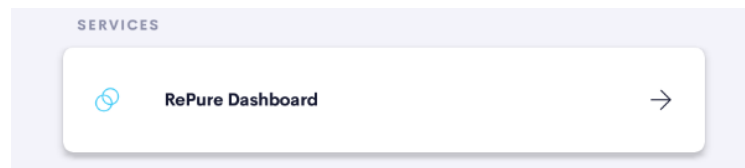


Opening the tile will show a listing of all the metrics for that room. Each metric has a name, value, and a colour indicating the quality (green = good, yellow = fair, red = poor).

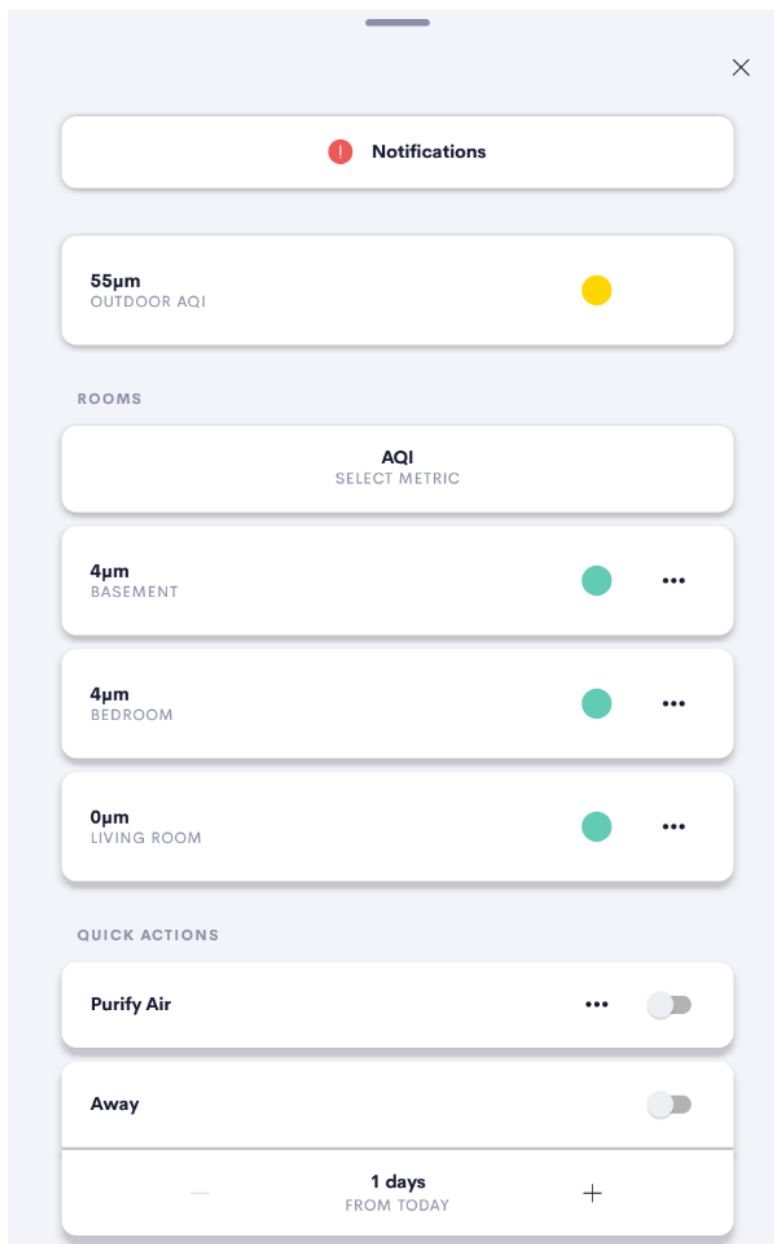


Dashboard Tile

There is one dashboard tile for each RePure platform. This tile is shown in the home view.

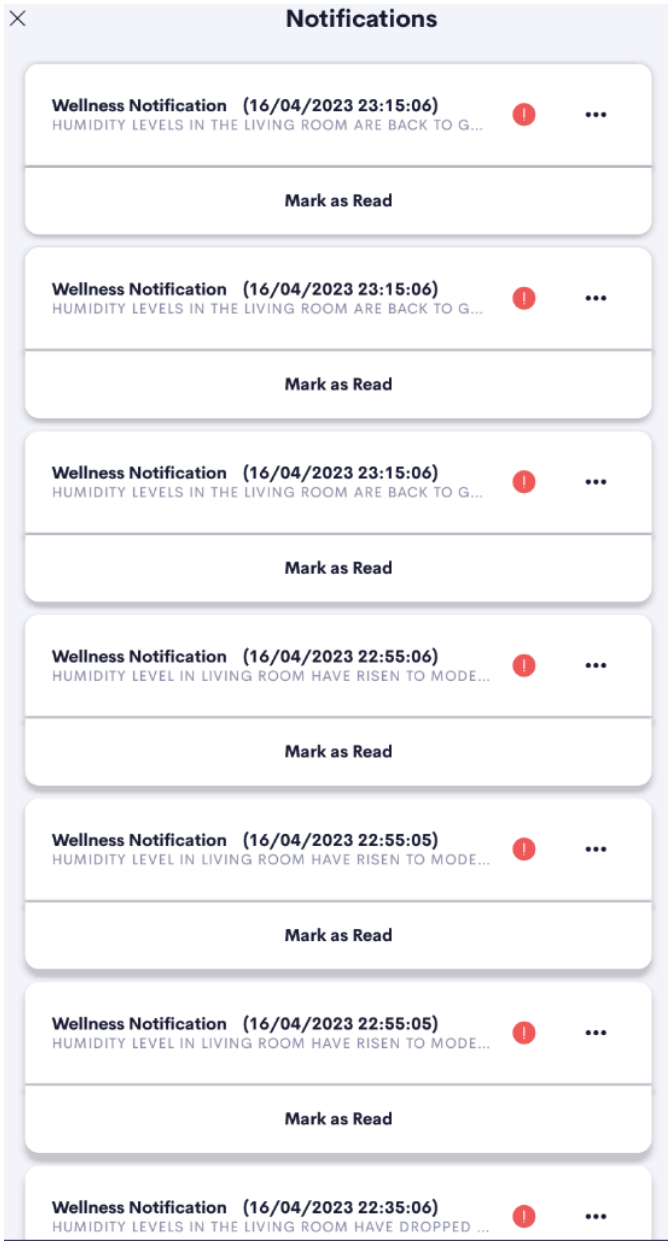


Within the tile there are the notifications, outdoor AQI value, room metric previews, and RePure quick actions. An exclamation mark on the notifications button indicates that there are unread notifications.

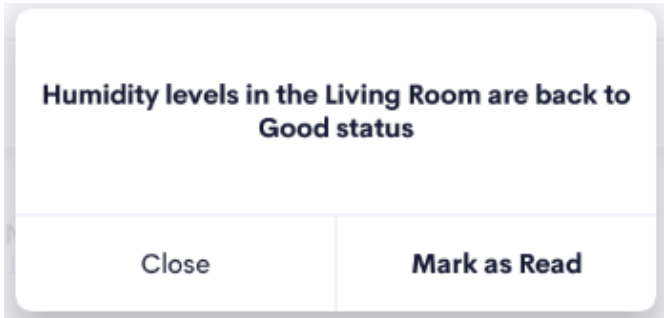


Notifications

Pressing the button opens the list of notifications. An exclamation mark indicates a notification is unread.



Pressing the ellipsis (...) next to one of them will open its full message.



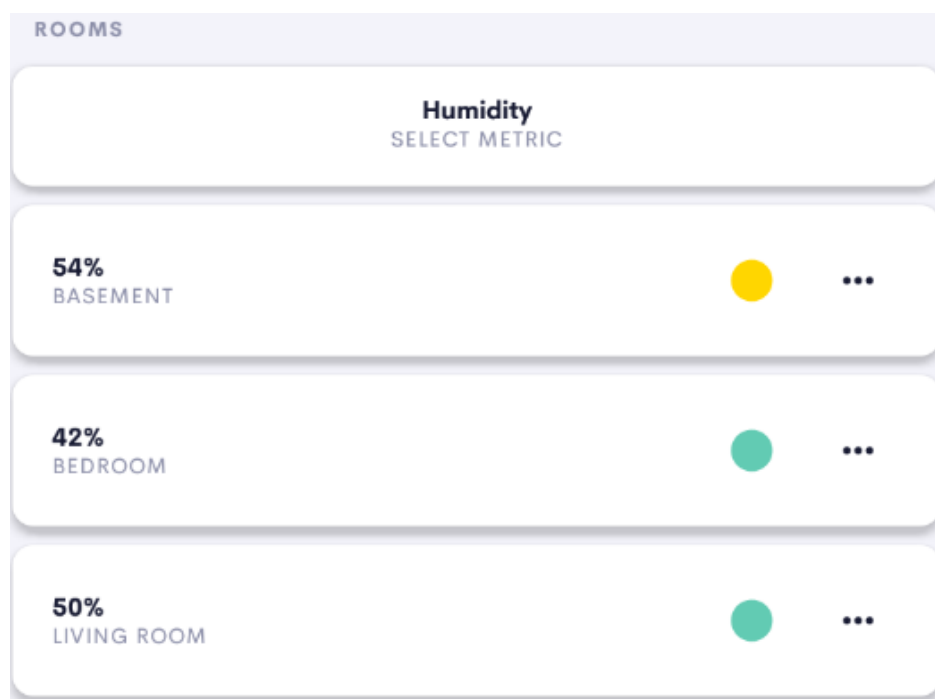
Rooms

Pressing the button marked "SELECT METRIC" button under the rooms subtitle brings up a list of all the metrics.

×

AQI	<input type="radio"/>
Carbon Dioxide	<input type="radio"/>
PM1	<input type="radio"/>
PM2.5	<input type="radio"/>
VOCs	<input type="radio"/>
Temperature	<input type="radio"/>
Humidity	<input checked="" type="radio"/>
Radon	<input type="radio"/>
Pressure	<input type="radio"/>
Ozone	<input type="radio"/>

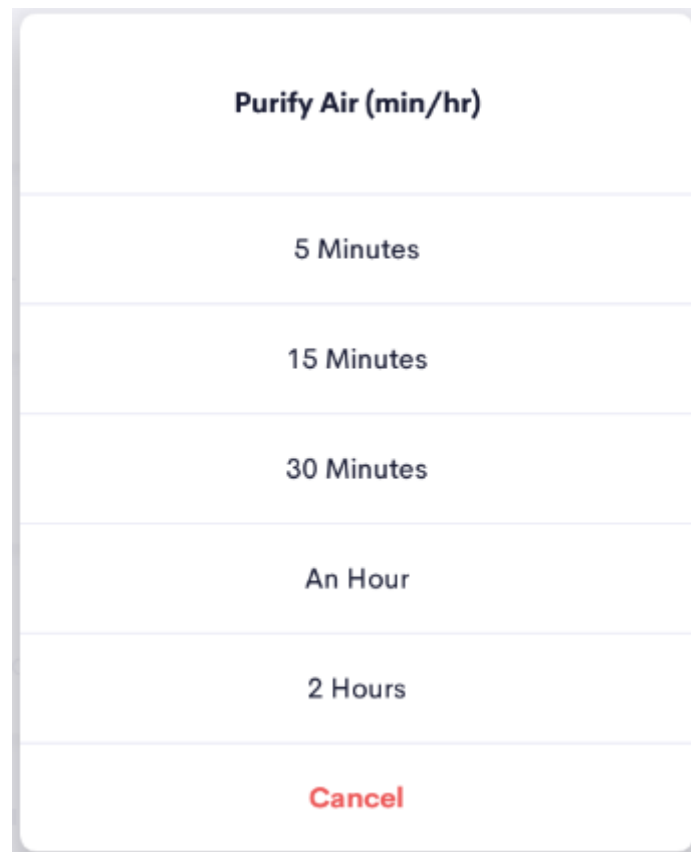
This allows the metric displayed on the rooms previews to be changed.



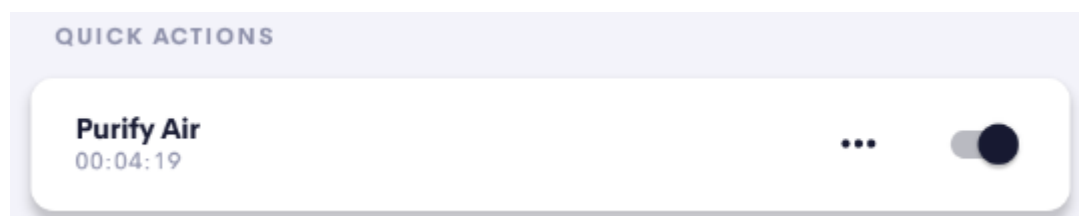
RePure Quick Actions

NOTE: THESE DO NOT COMMUNICATE WITH THE REPURE CLOUD PLATFORM. They trigger events locally within Crestron Home. They should also not be confused with Crestron Home quick actions. See the next section for further details.

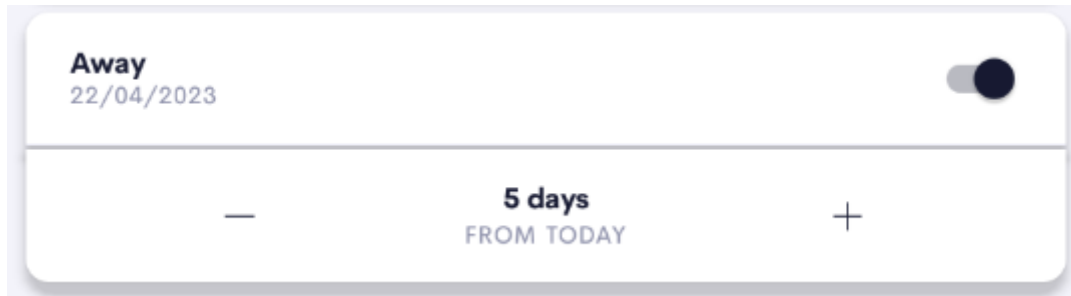
The first action is Purify Air. The intended purpose for this is to temporarily turn on connected devices such as fans. Pressing the ellipsis on this will bring up a series of options for how long to purify for. A timer will begin and the "Purify On" event will be triggered when one is selected.



The action's toggle will turn off and the "Purify Off" event will be triggered when the timer elapses.



The other action is Away. The intended purpose of this is to turn off connected devices in the home or set them to an away state whilst the residents are away. A number of days can be selected with the lower section. Turning on the toggle will trigger the "Away On" event and set the return date. The toggle will be turned off and the "Away Off" event will be triggered when the return date is reached. This will be at the same time in the day that the away action was triggered.

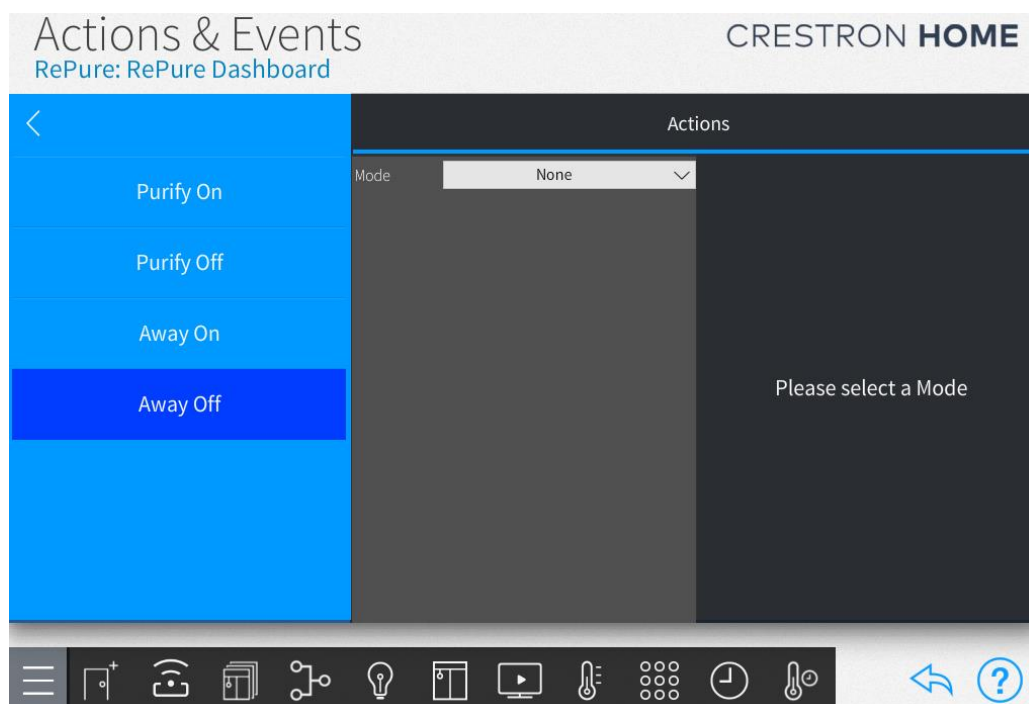


EVENTS

There are four programmable events for the dashboard tile. This section explains their intended usage.

A resident may want to purify the air for a selected amount of time by using the RePure Purify Air quick action. The corresponding Crestron Home events (Purify On and Purify Off) can be linked to the necessary ventilation devices in order to do this. The On and Off events are triggered when the purify timer starts and stops, respectively.

A resident may also want to put their home into an away state whilst on holiday/vacation by using the RePure Away Quick Action. The devices targeted by this action can be linked through the Away On and Away Off events. These are triggered when the away period starts and ends, respectively.



SUPPORT

If you have any issues with a driver or installation please let us know by contacting Ultamation support on support@ultamation.com and please include as much detail about your issue as possible, such a recent processor error log.

Any general inquiries regarding RePure can be sent to them on support@repure.io.

LICENCE

This module (including software, images and any and all other associated assets distributed as part of the purchased download package) is licenced on a PER PROCESSOR basis.

A licence key is generated at the point of purchase and is linked at that time to specific information that MUST be provided at the time of purchase. A purchase should not be completed without correct information as refunds cannot be issued for errors or changes made to details following purchase.

The licence key for each device will be delivered via email along with links to download the module. There is no physical delivery.

The module is provided without any warranty with respect to the reliability of the controlled device or changes to device protocol. We will endeavour, through best efforts, to maintain the module's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this module and this will be a separate, purchasable, product.