Weather Tile For Crestron Home

Revision: 1.04
Date: 23 October 2026

Supported Installation

This is a Crestron Home driver for Crestron Home processors.

Description

The driver is designed to display weather data on a UI received from an HTTP request polling a Weather API every hour.

Features include:

- Displaying current weather conditions
- Displaying Air Quality information
- Displaying a weekly forecast
- Displaying an hourly forecast
- Displaying any weather alerts should there be any
- Ability to scope weather forecasts for Country, State, County, City, Postcode / Zip

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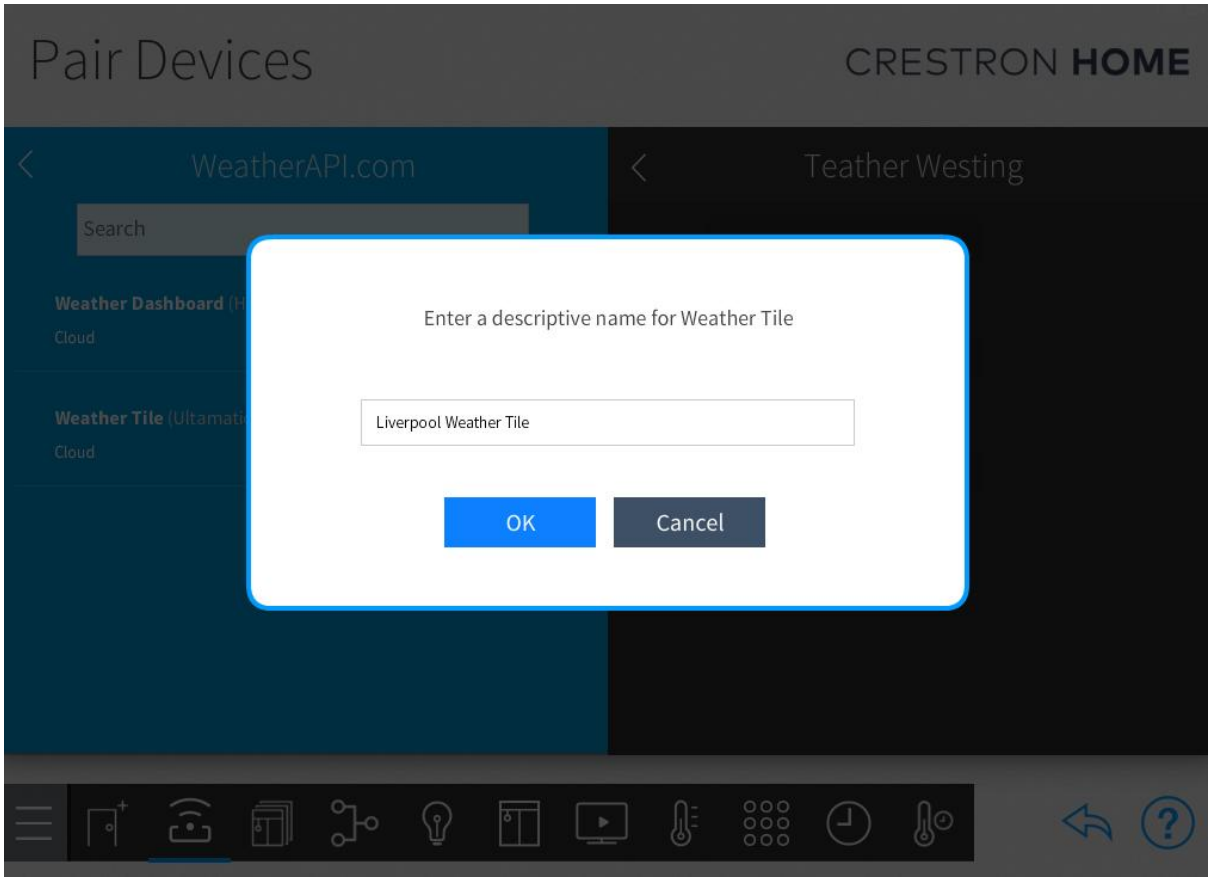
Installation

The driver can be found under:

Drivers > Weather Station > WeatherAPI.com > Weather Tile

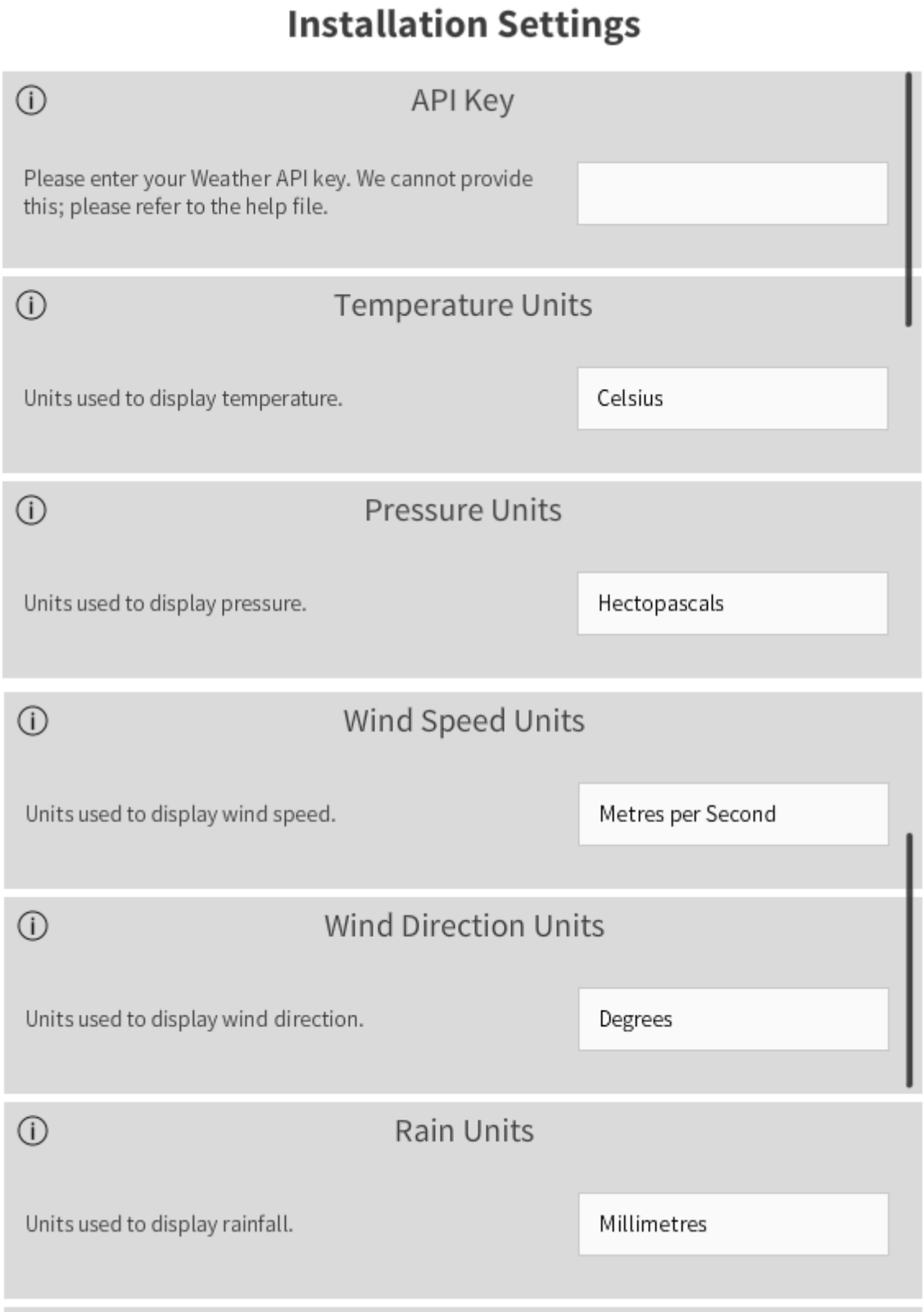
Adding the Driver

Ensure a room is selected, and then click on the '+' against the appropriate device. You will be asked to provide a descriptive name – this can be anything you wish.

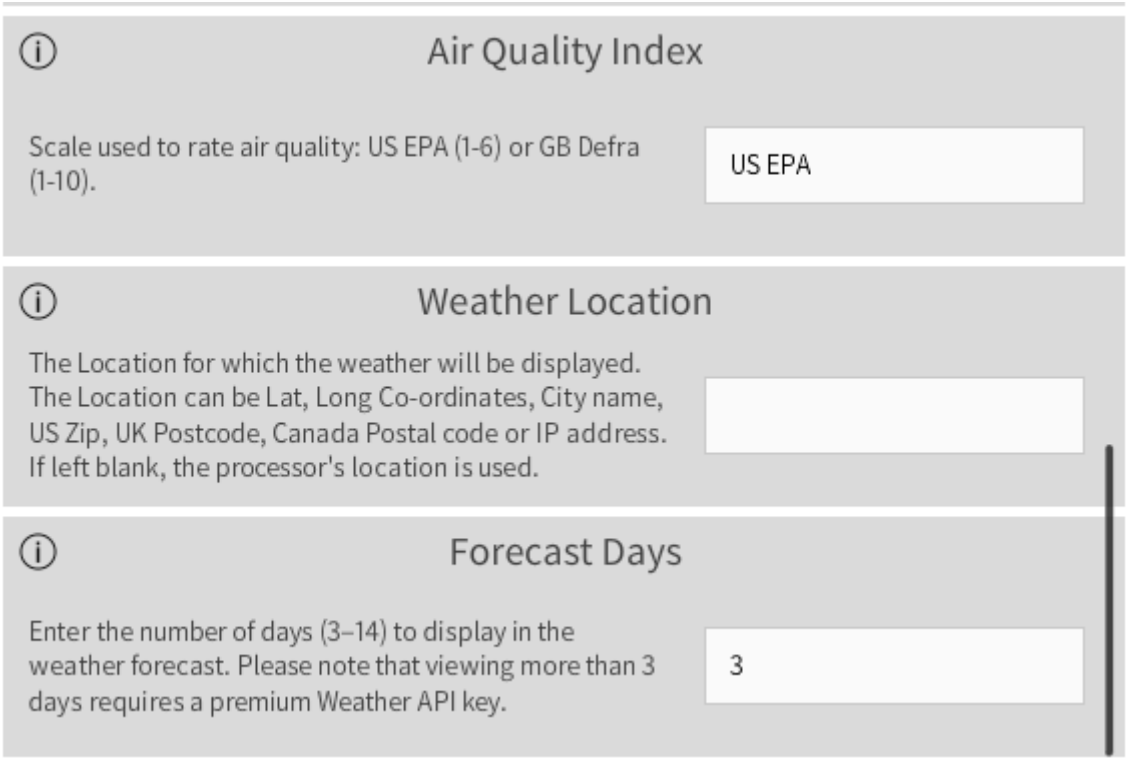


The driver is licensed via the cloud, please first refer to the "Licensing" section below. If you do not have a cloud licence the system will function for **one hour** and then control will be suspended.

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An API key must be set up before loading the driver. Without an API key the driver will not load. An invalid API key shows an error on the panel. Go to weatherapi.com to set up an API key.

Each unit setting is chosen from a drop-down list, which sets how the tile displays that measurement. **On the PC4-R, and on v1 of the CP4-R and MC4-R, firmware updates have been discontinued, so the setting appears as a text box instead and the unit must be typed in.** Entries are case-sensitive and must match exactly, including spaces and hyphens, so we recommend copying them from the tables below. The values in bold are the default display units.

Display Units

Value	Shown as
Fahrenheit	˚F
Celsius	˚C

Value	Shown as
Inches of Mercury	inHg
Millibars	mb
Millimetres of Mercury	mmHg
Hectopascals	hPa
Kilopascals	kPa

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Value	Shown as
Miles per Hour	mph
Kilometres per Hour	km/h
Knots	kts
Metres per Second	m/s
Beaufort	bft
Linear Feet per Minute	lfm

Value	Shown as
Cardinal	Compass points, e.g. N, NE, E
Degrees	0–360˚

Value	Shown as
Inches	in
Millimetres	mm
Centimetres	cm

Value	Shown as
US EPA	1–6, Good to Hazardous
GB Defra	1–10, Low to Very High

If you choose to change the units after creating logic on the exposed properties, you will need to adjust the logic accordingly for the new units.

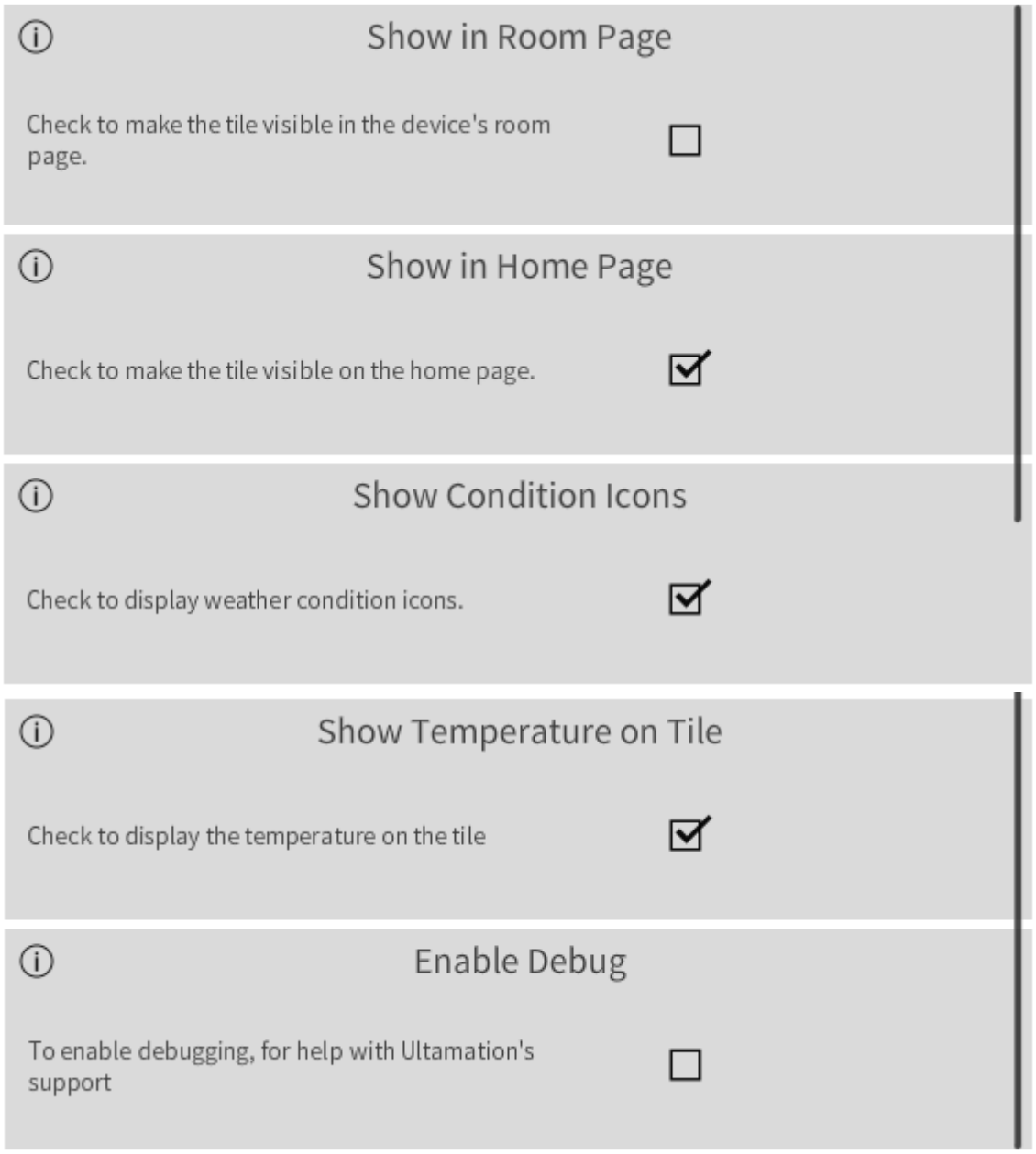
The location parameter is where the API will get the weather data for. The location can be any of the following scopes:

- Latitude and Longitude
- City Name
- US ZIP
- UK Postcode
- Canada Postal Code
- METAR
- IATA
- IP address

If the location parameter is left blank, the processor's location is used, or the site's approximate location if that hasn't been set. See After Configuration.

Forecast Days sets how many days the weekly forecast shows, from 3 to 14. This value defaults to 3 as this is the number of days included in the free tier of the API. If the user wishes to view more days a premium API key can be purchased at the pricing page at weatherapi.com. The API currently has the ability to display up to 14 days and the tile can display all 14.

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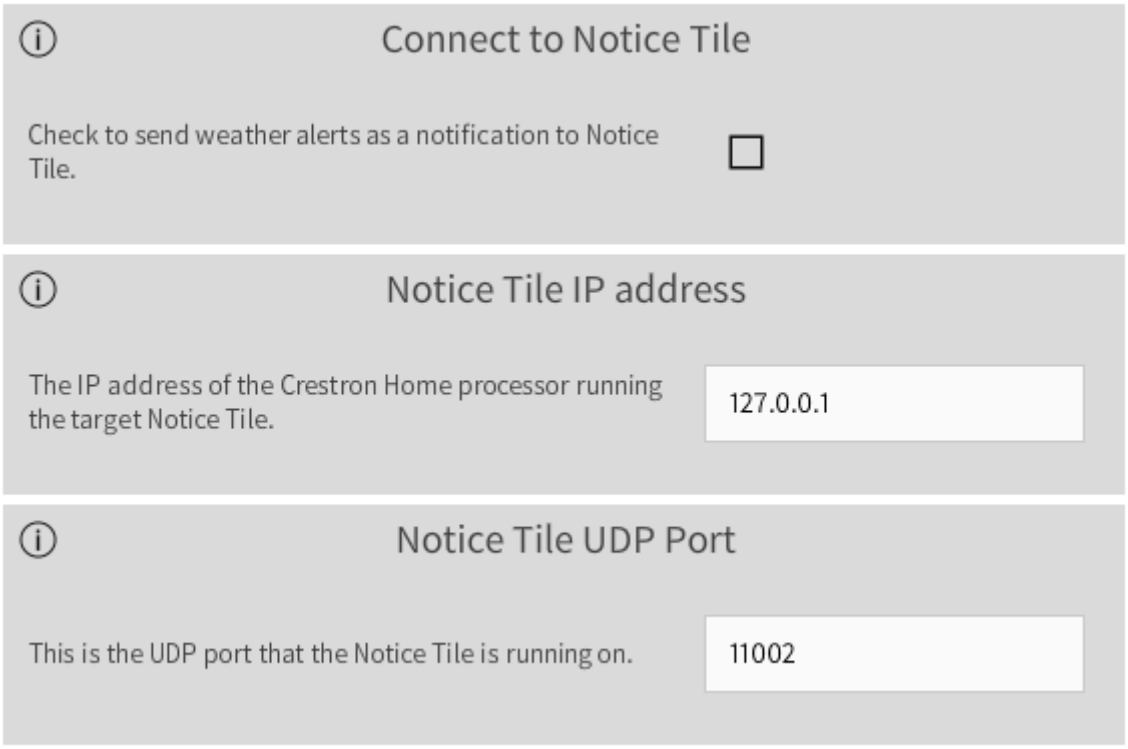


The next page gives you the preferences for how and where you want the tile to appear.

The last option enables additional logging, viewable in Toolbox's Text Console, that can help with debugging any potential problems with the driver.

Leave it disabled during normal use, as each request logs the Weather API's full response.

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Our Weather Tile includes integration with our Notice Tile, allowing users to be notified of latest weather alerts via Pushover notifications. If you have a Notice Tile on your device, please see the below information for configuration.

Otherwise leave the checkbox unticked and press next to finish configuring your Weather Tile.

The second option is the IP address which needs to match the address of the processor that the Notice Tile has been loaded on.

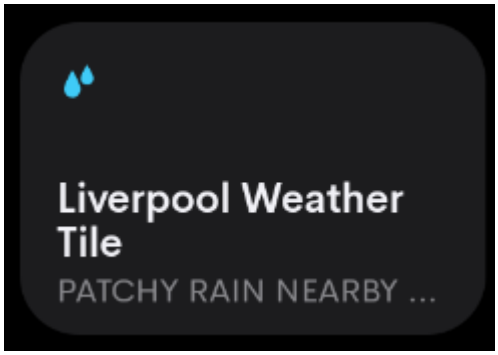
The last option needs to have the matching UDP port that the Notice Tile has been loaded with, to receive the weather alerts from the Weather Tile.

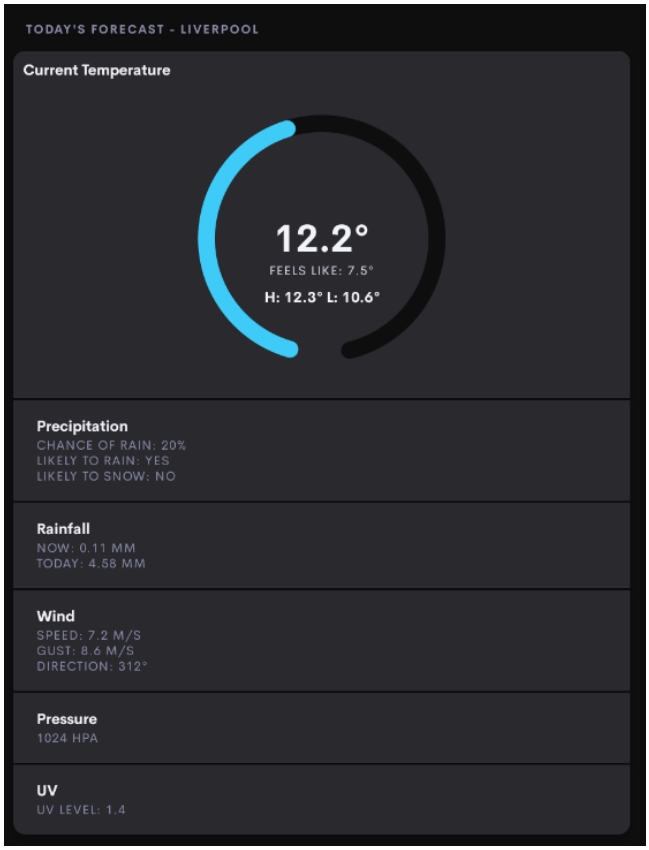
Congratulations, you have now loaded the driver.

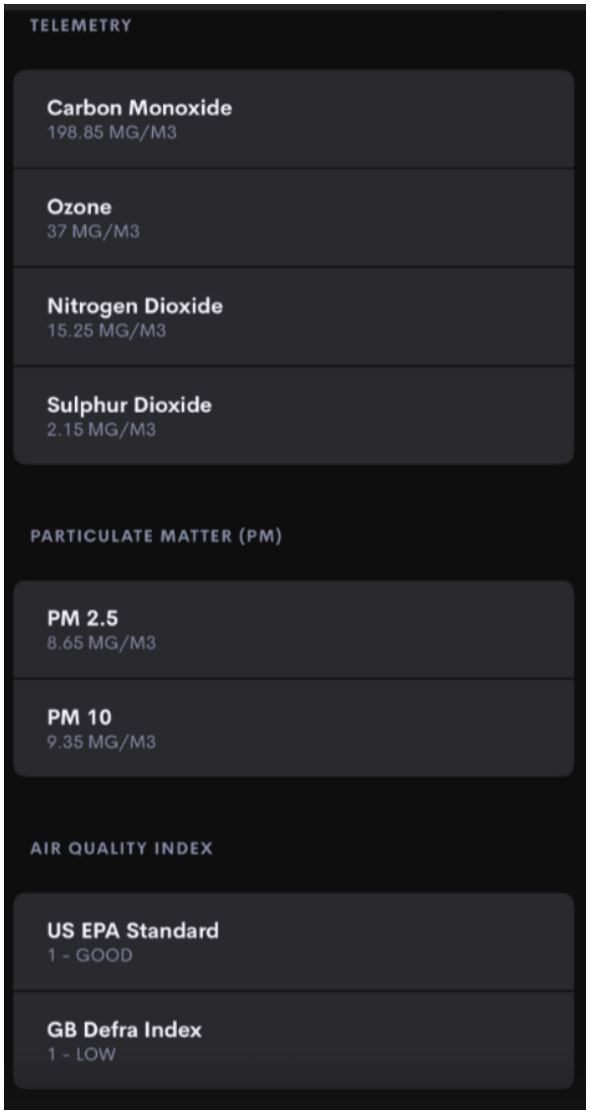
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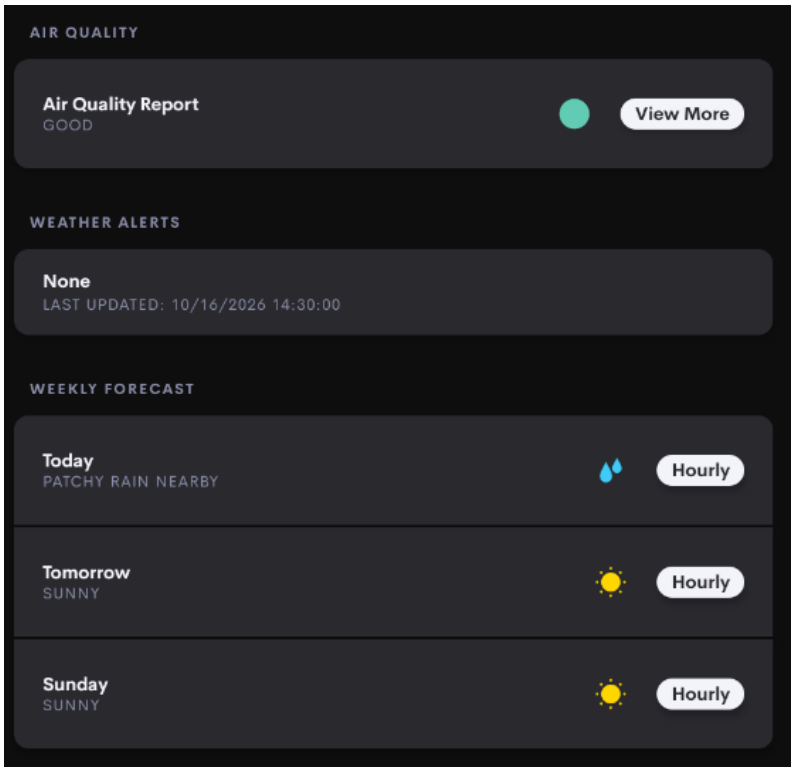
After Configuration

Once the Weather Tile has been set up, current weather conditions are displayed. Below is an example of a loaded tile:

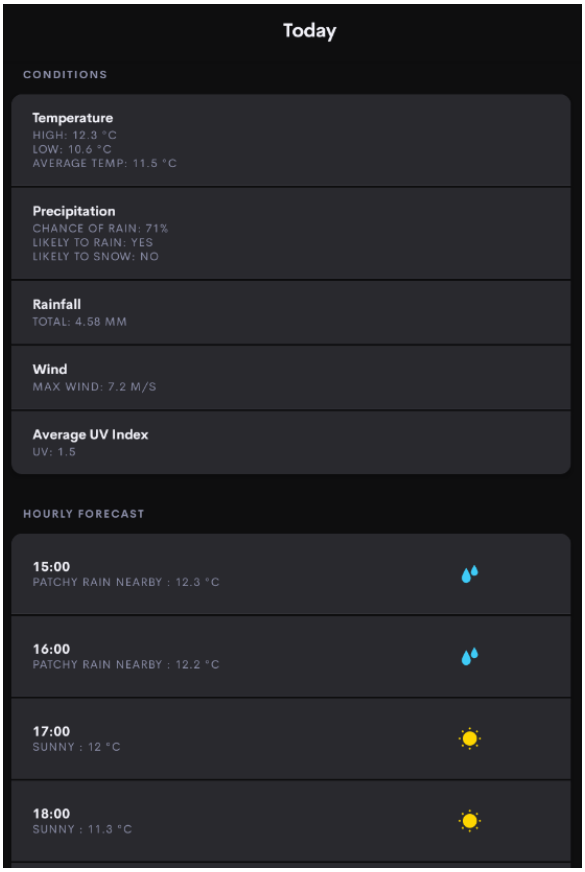


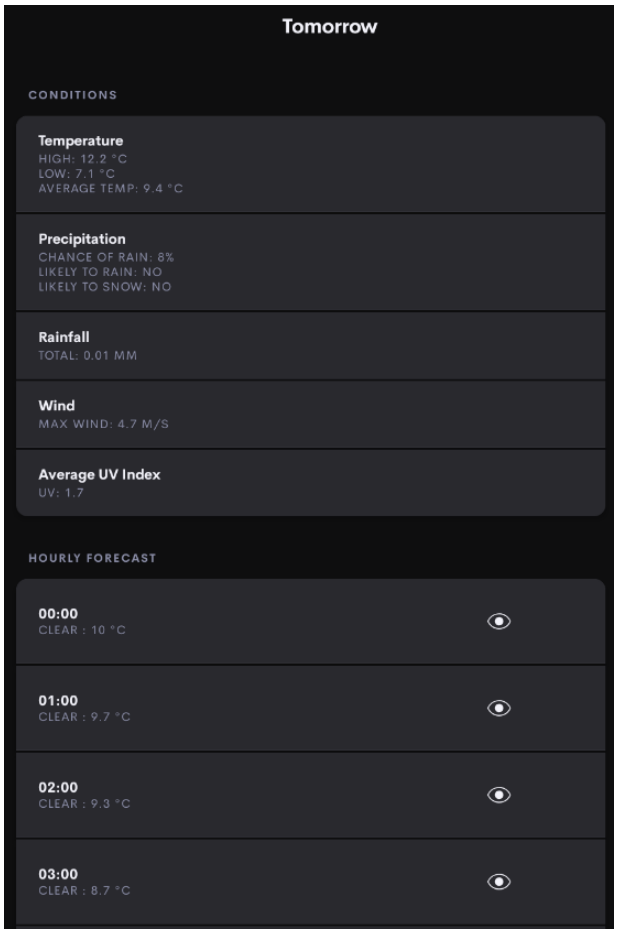






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The heading at the top of the panel shows the place the forecast is for, for example “Today’s Forecast - Liverpool”. This is worth checking after setup. If the Weather Location is left blank or can’t be found, the driver uses the processor’s location instead. If that has never been set in Toolbox, it uses the approximate location of the site’s internet connection. If the heading shows a different town to the one expected, enter a Weather Location, or set the processor’s location from EasyConfig within the Crestron Toolbox.

The forecast is first requested around ten seconds after the driver is configured, and then once an hour. Until the first forecast arrives, the panel shows a loading screen. Changing a setting, such as a unit, takes effect at that next request.

If the Weather API rejects the request, the panel shows a message explaining why instead of the forecast. For example, it shows a message when the API key is invalid or disabled, or when the account’s quota has been exceeded. These need correcting in the installer settings or the Weather API account. Other errors, such as a dropped connection, don’t replace the panel; the last forecast stays on screen and the driver tries again at the next request.

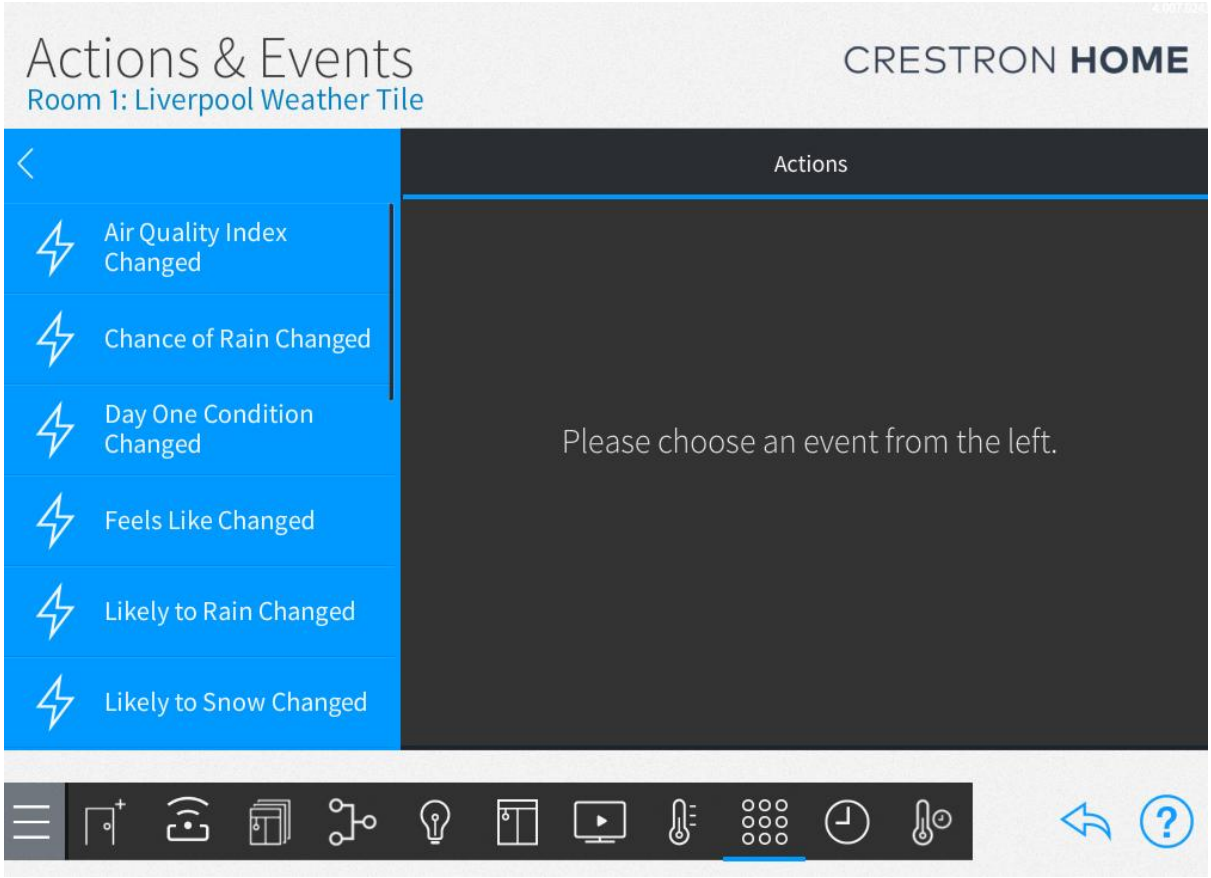
The hourly forecast on each day’s page only lists the hours still to come, so today’s page gets shorter as the day goes on. Air quality readings show “N/A” when the Weather API has no reading for the location. The Weather Alerts section shows “None” with the time of the last update when there are no active alerts.

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Exposed Properties

When the driver has been loaded, these properties become exposed and allow for logic to be applied on them.

You can find them by clicking into Actions & Events, clicking into the room with the driver and choosing the Weather Tile folder.



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The properties that are exposed are:

- Air Quality Index – available as an index value, 1–6 for US EPA or 1–10 for GB Defra
- Chance of Rain – available in %
- Day One Condition – available as text, e.g. “Partly cloudy”
- Feels Like – available in °C, °F
- Likely to Rain – available as 0 (no) or 1 (yes)
- Likely to Snow – available as 0 (no) or 1 (yes)
- Pressure – available in inHg, mb, mmHg, hPa, kPa
- Rainfall (Today) – available in in, mm, cm
- Rainfall – available in in, mm, cm
- Temperature – available in °C, °F
- Today High Temperature – available in °C, °F
- Today Low Temperature – available in °C, °F
- UV Index – available as an index value
- Wind Direction – available in degrees
- Wind Gust – available in mph, km/h, kts, m/s, bft, lfm
- Wind Speed – available in mph, km/h, kts, m/s, bft, lfm

These properties update once an hour, when the driver requests a new forecast from the Weather API. Logic that depends on a faster response than this will not behave as expected.

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It's important to note that:

Changing a unit also changes the values reported to programming. Wind speed switched from miles per hour to kilometres per hour will report about 48 where it previously reported 30 for the same wind, so any thresholds already set will need adjusting. Beaufort needs particular care, as it reports a force between 0 and 12 rather than a speed. A threshold set above 12 can never be met, and the action will not fire again.

Properties always return a value. Until the first forecast has been received, and whenever the Weather API has no reading for the location, the numeric properties return 0. This is worth allowing for in any logic you write: an action set to trigger when the Air Quality Index is below 3 would also fire when no air quality reading is available.

If a request to the Weather API fails, the properties keep reporting the values from the last successful forecast until the next request succeeds.

If one of these properties is reporting 0 when you expect a value, check that the processor can reach the internet and that the API key is valid. The panel shows a message in place of the forecast if the Weather API rejects the key or the account has exceeded its quota. Air quality depends on the Weather API having a reading for the location, so it can be 0 in some areas even when everything else is working. Enabling debug logging shows each request and the Weather API's full response in Toolbox's Text Console.

Chance of Rain is for the current hour. Likely to Rain, Likely to Snow, Today High Temperature, Today Low Temperature and Rainfall (Today) are for the whole of today. Rainfall is the amount reported for the current conditions.
Day One Condition is the current weather condition as described by the Weather API, e.g. "Light rain". The wording comes from the Weather API and can vary, for example "Patchy light rain" rather than "Light rain", so it is better suited to display than to exact comparisons in logic.

Air Quality Index follows the Air Quality Index setting: 1–6 for US EPA or 1–10 for GB Defra. Changing the setting changes the scale, so any thresholds will need adjusting.

Wind Direction is always reported in degrees. The Cardinal setting changes how the direction appears on the panel but does not affect the property.

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Support

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

Licence verification messages are posted to the error log, so please ensure you have checked this.

Licensing

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

A purchase should not be completed without correct information as refunds cannot be issued for errors or changes made to details following purchase.

This is an electronic product and there is no physical delivery.

The integration solution 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 integration solution's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this integration solution and this will be a separate, purchasable, product.

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Cloud Licence

This integration solution contacts Ultamation's licensing server at startup. If the server finds a matching licence for the integration solution and processor then the integration solution will be licensed. Otherwise, the integration solution will check the offline licence key. If you purchase a licence **after** you have loaded the integration solution, please reboot the system to see changes take effect.

If you purchased a licence **before** it was migrated to the cloud service, i.e. you have a licence key already, you must enter this into the **Offline Key** user attribute. If you purchased the integration solution **after** it was migrated, and you don't have a licence key, no further action is required.

If no licence exists for the product/processor the integration solution will enter a short trial period (ONE HOUR) to allow for verification of correct control or evaluation.

To request an OFFLINE key, please contact support@ultamation.com with your order details and a brief explanation why you REQUIRE offline activation. Ultamation reserve the right to refuse offline activation.

NOTE: Once an offline key has been issued no further licence changes will be granted. Moving the integration solution to a new processor will require an additional licence purchase.

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