Control Programming LLC

Release Notes

CPLLC Online Weather

Version 5.00 · November 17, 2026

Product	CPLLC Online Weather (Crestron Home extension)
Version	5.00
Release date	November 17, 2026
Where to find it	Drivers › Sensor › Control Programming LLC › Online Weather
Requires	Crestron Home OS 4.12 or later and an internet connection; for OpenWeatherMap, an OpenWeatherMap account subscribed to One Call by Call and its API key
Licensing	An Online Weather license key (cpllc.net/product/online-weather) or a CPLLC site license key (cpllc.net/product/site-license), entered in the extension's Enter License Key, or a site license key once in the CPLLC License Manager

Overview

The CPLLC Online Weather extension brings the weather for the house's location into Crestron Home from an internet weather service, with no weather station needed. The installer picks the service: the US National Weather Service (free, no account or key, US locations only), Environment Canada (free, no account or key, Canadian locations only), MET Norway (free, no account or key, anywhere in the world) or OpenWeatherMap (worldwide, with the customer's own API key). Its tile shows the temperature and conditions, its page the current weather, the daily forecast and every weather alert in force, and its events start sequences when a warning is issued or ends (a Tornado Warning, a Severe Thunderstorm Warning, a Winter Storm Warning ...) or when the temperature, wind or humidity pass the limits the installer sets.

Capabilities

Capability	What it does
Four services	The National Weather Service (US only), Environment Canada (Canada only), MET Norway (worldwide), all free with no key, or OpenWeatherMap (worldwide, the customer's key), picked with Weather Service.
Current weather	Conditions, temperature, humidity, wind with gusts and direction, pressure; UV with OpenWeatherMap and MET Norway.
Forecast	Seven days: each day's conditions, high and low, and the chance of rain where the service gives one.
Weather alerts	Every watch, warning and advisory in force for the location, at the top of the page, the first one on the tile: from the National Weather Service, Environment Canada and OpenWeatherMap (MET Norway gives none).
Warning events	Issued / Ended events for 21 common warnings, watches and advisories, plus any the installer names; Weather Alert Issued, Weather Alert in Effect and Weather Alerts Ended for every alert of the severity picked. Environment Canada's warnings raise the same events (its Wind Warning raises High Wind Warning, its Freezing Rain Warning Ice Storm Warning).
Limit events	Above / below events for the temperature, wind, humidity and UV at limits the installer sets.
Units	Temperature Scale picks every unit on the page: Fahrenheit shows °F, mph and inHg; Celsius shows °C, km/h and hPa.
PIN code	A PIN can be required before the page opens.
Live changes	Debug output turns on and off while the processor runs.

What's New in 5.00

- Two more weather services, both free with no account or key: MET Norway, for a house anywhere in the world (no weather alerts), and Environment Canada, for a house in Canada, with Canada's warnings.
- The page's Updated line names the service the weather comes from (Updated 4:05 PM from MET Norway).
- A forecast day leaves the chance of rain off when the service gives none, rather than showing 0%.
- An installation of the previous build lists only the first two services: remove the extension and add it again to pick MET Norway or Environment Canada.

Installing

Find the house's latitude and longitude in decimal degrees (on a map, right-click the house: most map sites show them, for example 35.970, -85.060; west of Greenwich the longitude is negative). Then add the extension from Drivers › Sensor › Control Programming LLC › Online Weather, pick the Weather Service and enter the location.

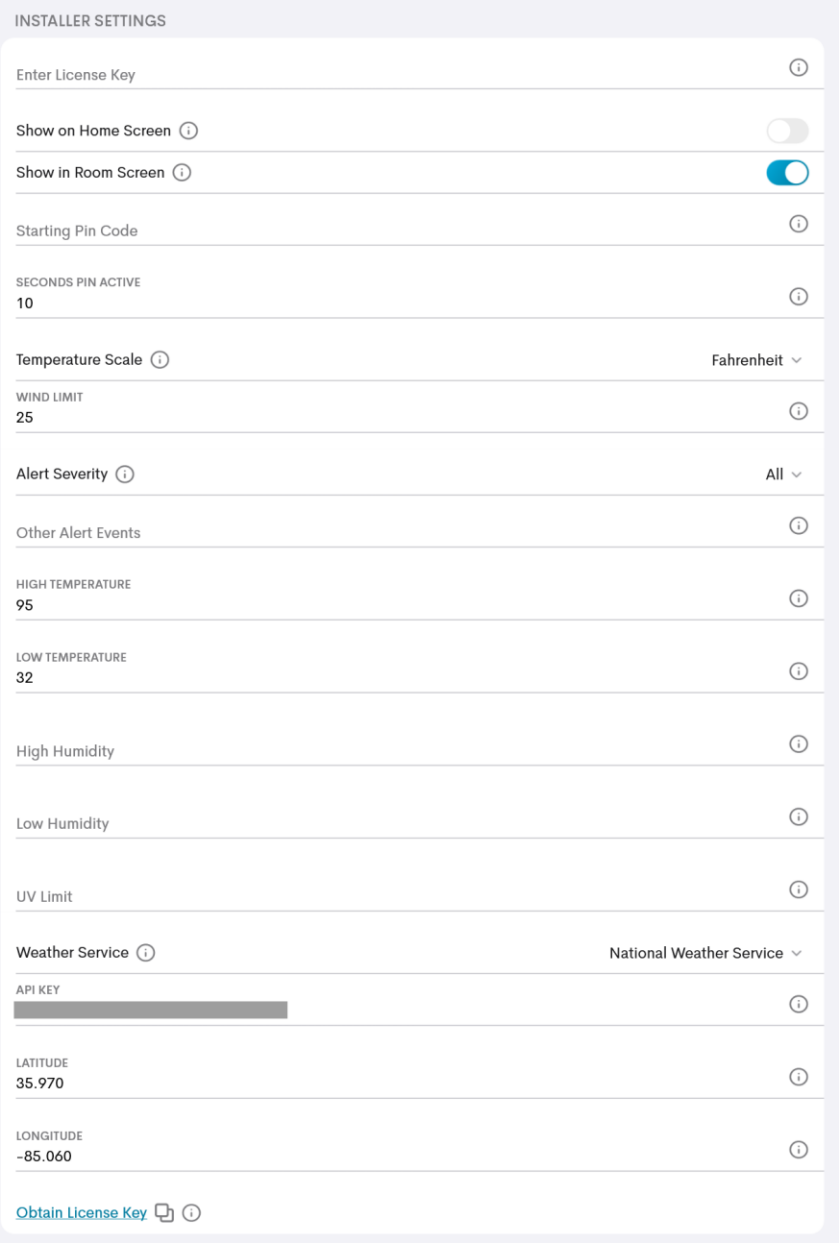
National Weather Service. Nothing else is needed: no account, no key. It covers the United States and its territories only; anywhere else the extension says the location is not covered. It reads the alerts every 2 minutes, the nearest weather station's observations every 10 minutes and the forecast every hour.

MET Norway. Nothing else is needed: no account, no key, and it covers the whole world. It is the Norwegian Meteorological Institute's forecast for the exact location, read every 30 minutes: the current weather is the forecast for this hour rather than a station's reading. It has no weather alerts outside Norway, so its warning events are never raised, and it gives a chance of rain only near the Nordic countries.

Environment Canada. Nothing else is needed: no account, no key. It covers Canada only: the extension shows the nearest of Environment Canada's about 840 city forecasts (within about 200 miles; anywhere else the extension says the location is not covered), with that city's current conditions, its forecast and the warnings, watches and special weather statements in force. It reads them every 5 minutes.

OpenWeatherMap. OpenWeatherMap needs an API key on an account subscribed to its One Call API 3.0:

- Sign up for a free account at openweathermap.org and confirm the email.
- On the site's pricing page, subscribe to One Call API 3.0, the One Call by Call plan. It asks for a card, but the first 1,000 calls a day are free; set the subscription's daily limit to 1,000 so it never charges. The extension makes 144 calls a day (one every 10 minutes).
- Copy the key from the API keys tab of the account page (home.openweathermap.org/api_keys). A new key can take a few hours to start working.
- Paste it into the extension's API Key option and pick OpenWeatherMap as the Weather Service.



Installer Settings in Configure Pro

Installer Options

Option	Description
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The Online Weather license key. Leave blank when the site has a CPLLC site license.
Show on Home Screen	Shows the tile on the Home screen (default off).
Show in Room Screen	Shows the tile in its room (default on).

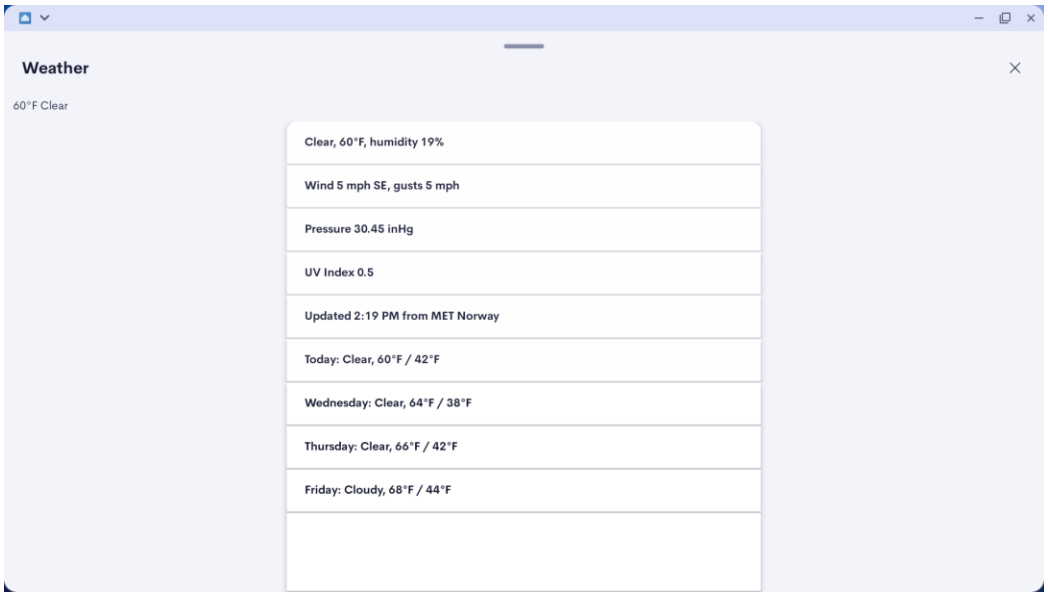
Option	Description
Starting Pin Code	A numeric PIN that must be entered before the page opens. Blank means no PIN (the default).
Seconds Pin Active	How long the page stays unlocked after the last touch (default 10 seconds).
Temperature Scale	The units the page shows: As Reported (metric), Fahrenheit (°F, mph, inHg) or Celsius (°C, km/h, hPa). The limits below are in the same units.
Wind Limit	Wind Above Limit is raised when a gust reaches this speed, in mph (Fahrenheit) or km/h, and Wind Below Limit once gusts fall under 80% of it (default 0, none).
Alert Severity	Which alerts raise Weather Alert Issued, Weather Alert in Effect and Weather Alerts Ended: All, Moderate and above, or Severe and above (default All). The page shows every alert either way.
Other Alert Events	More alerts to raise “<name> Issued” and “<name> Ended” for, by the service’s own name, separated by commas (for example Dust Storm Warning, Special Weather Statement).
High Temperature / Low Temperature	Temperature Above / Below High Limit around the high one, Temperature Below / Above Low Limit around the low one. Blank for none.
High Humidity / Low Humidity	Humidity Above / Below High Limit and Humidity Below / Above Low Limit, in percent. Blank for none.
UV Limit	OpenWeatherMap and MET Norway only: UV Above / Below Limit around this UV index. Blank for none.
Weather Service	National Weather Service (US only, no key; the default), OpenWeatherMap (worldwide, needs API Key), MET Norway (worldwide, no key, no alerts) or Environment Canada (Canada only, no key).
API Key	OpenWeatherMap only: the account’s API key (see Installing).
Latitude / Longitude	The house’s location in decimal degrees: north and east positive, so west is negative (for example 35.970 and -85.060).

End-User Experience

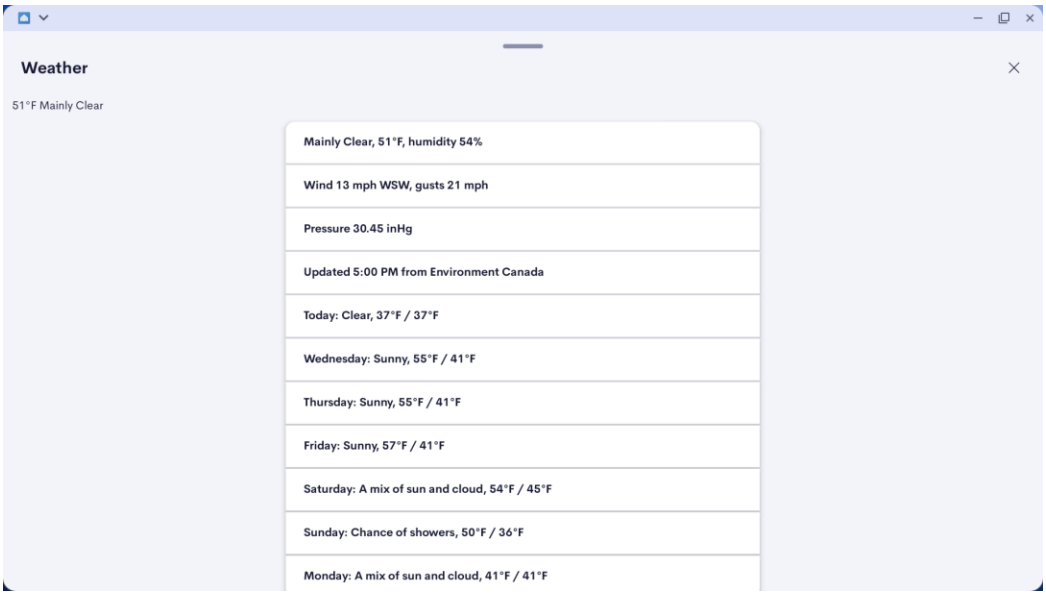
The tile shows the temperature with the current conditions, or the first weather alert in force. Its page lists the current weather and wind, the alerts (ALERT Tornado Warning until 7:45 PM ...), the pressure and the time of the last report with the service it came from, then one line per forecast day. Offline shows while the service has not answered.



The page with the National Weather Service: the current weather and the seven-day forecast



The page with MET Norway: no alerts, and no chance of rain outside the Nordic area



The page with Environment Canada (Toronto)

Without a valid license key or a CPLLC site license, the tile runs for a two-hour grace period after the extension starts; then it shows License Expired. Entering a valid key, or adding a site license, clears it without a restart.

Sequences

The extension's events are under its name in Customize Actions & Events. Each warning type and each limit has its pair of events whether or not it ever happens; a blank limit raises neither. An event is raised when its condition changes, not for the state the extension starts in (an alert already in force when it starts raises nothing).

The actions:

Action	Description
Extension Enable / Extension Disable	Enables or disables the device. A disabled device shows Disabled and raises no events.

The events:

Event	Description
<warning> Issued / <warning> Ended	The first alert of that type came in force; the last one ended. For Tornado Warning, Tornado Watch, Severe Thunderstorm Warning, Severe Thunderstorm Watch, Flash Flood Warning, Flood Warning, Hurricane Warning, Tropical Storm Warning, Winter Storm Warning, Blizzard Warning, Ice Storm Warning, Winter Weather Advisory, High Wind Warning, Wind Advisory, Extreme Cold Warning (and Wind Chill Warning), Extreme Heat Warning (and Excessive Heat Warning), Heat Advisory, Freeze Warning, Frost Advisory, Red Flag Warning and Dense Fog Advisory, and each name in Other Alert Events. Environment Canada's Wind, Heat and Freezing Rain Warnings and Fog Advisory raise High Wind, Extreme Heat, Ice Storm and Dense Fog.
Weather Alert Issued	A new alert of the severity picked came in force.

Event	Description
Weather Alert in Effect / Weather Alerts Ended	The first alert of the severity picked came in force; the last one ended.
Wind Above Limit / Wind Below Limit	A gust reached Wind Limit; gusts fell under 80% of it.
Temperature Above High Limit / Temperature Below High Limit	The temperature rose above High Temperature; fell back under it.
Temperature Below Low Limit / Temperature Above Low Limit	The temperature fell below Low Temperature; rose back above it.
Humidity Above High Limit / Humidity Below High Limit	The humidity rose above High Humidity; fell back under it.
Humidity Below Low Limit / Humidity Above Low Limit	The humidity fell below Low Humidity; rose back above it.
UV Above Limit / UV Below Limit	OpenWeatherMap and MET Norway only: the UV index rose above UV Limit; fell back under it.
Extension Enabled / Extension Disabled	The device was enabled or disabled.
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered (with a Starting Pin Code set).

Known Limitations

- The National Weather Service covers US locations only, and its current weather is its nearest observation station's, which can be some miles away; the alerts are for the house's own forecast, county and fire weather zones.
- The National Weather Service's servers answer with errors at times; the extension keeps the last weather and tries again, and shows Offline after three failed reads in a row.
- MET Norway is a forecast model: its current weather is the forecast for this hour, not a reading from a weather station, and it has no weather alerts outside Norway.
- Environment Canada shows the nearest of its city forecasts, which can be some miles from the house; a US house near the border is shown a Canadian city's weather.
- OpenWeatherMap gives no rain total for the day and no alert severity: its alerts count only under Alert Severity All.
- Tested with the National Weather Service, MET Norway and Environment Canada on a processor running Crestron Home 4.13. OpenWeatherMap has not yet been tried with a working key, and no warning or limit event has yet been seen on real weather.
- The weather is only as current as the service: the National Weather Service's observations and Environment Canada's are about hourly, MET Norway's forecast is read every 30 minutes, OpenWeatherMap every 10 minutes.

Test Environment

Crestron Home 4.013.0134 on a DIN-AP4-R; set up with Configure Pro 4.12.

Weather Data

- MET Norway: weather forecast from the Norwegian Meteorological Institute (MET Norway), licensed under the Creative Commons Attribution 4.0 licence (CC BY 4.0); the page names it as the source.
- Environment Canada: contains information licensed under the Data Server End-use Licence of Environment and Climate Change Canada.
- National Weather Service: public domain data from the US National Weather Service (NOAA).
- OpenWeatherMap: weather data from OpenWeather, under the customer's own OpenWeatherMap account.

Version History

Date	Version	Changes
2026-11-17	5.00	MET Norway and Environment Canada weather services; the Updated line names the source
2026-11-17	5.00	First release

Support

> **CPLLC Site License**
> A CPLLC site license is one key per processor, entered in the License Manager, that licenses every CPLLC extension and platform on that processor, current and future, so no product needs a key of its own. See the Site License page. Customers who already own CPLLC license keys can upgrade to a site license on the CPLLC website for the difference.

Company	Control Programming LLC
Contact	Randy Johnson
Email	randy@cpllc.net
Website	https://cpllc.net
Product page	https://cpllc.net/product/online-weather/

© 2026 to the present, Control Programming LLC. All Rights Reserved.

OpenWeatherMap and OpenWeather are trademarks of their respective owners. Crestron and Crestron Home are trademarks of Crestron Electronics, Inc. This extension is an independent product of Control Programming LLC and is not affiliated with, endorsed by or sponsored by the owners of OpenWeatherMap and OpenWeather.