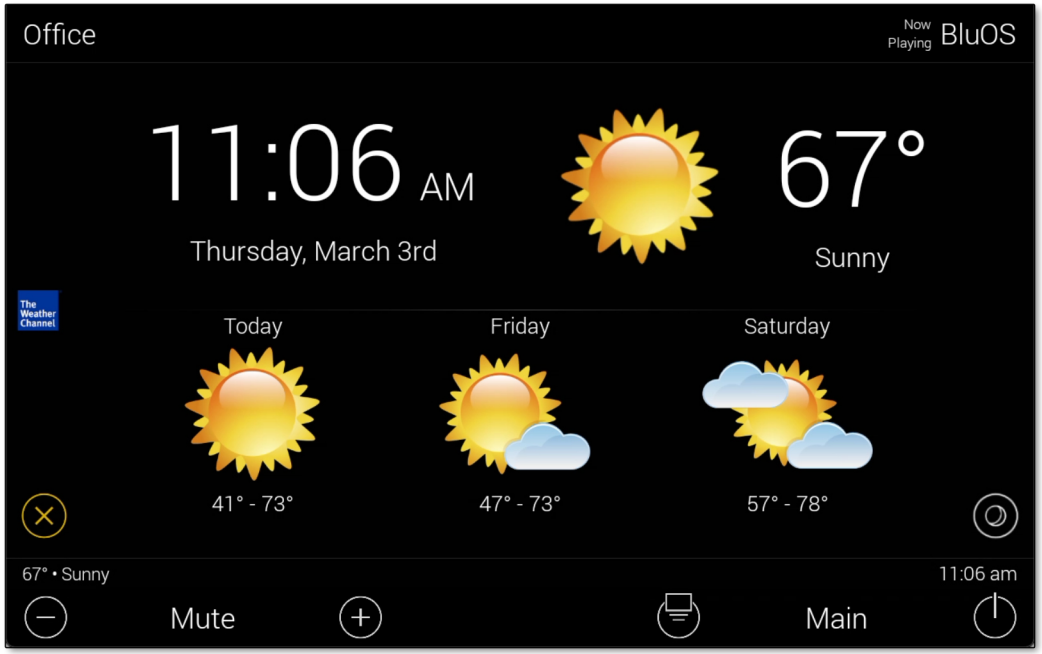

WEATHER TOOLS INTEGRATION GUIDE

Total Control™

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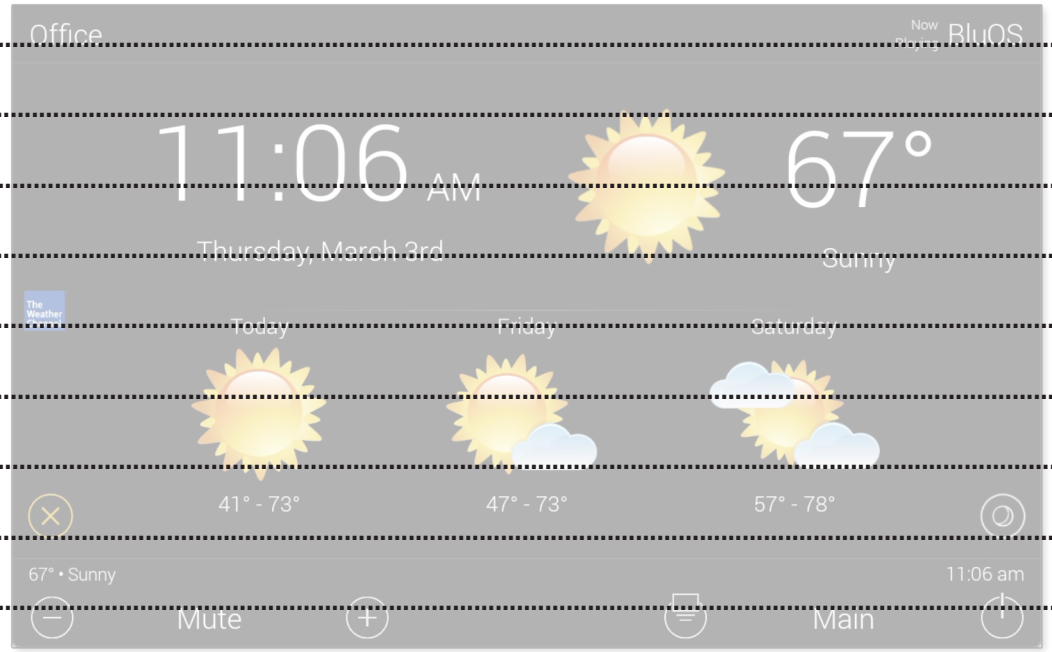

Technical Support

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Overview

URC's Weather Tools module provides **custom macro integration** and **advanced automation capabilities** based on specific weather conditions and environmental changes.

Requirements

- Weather data **must be entered** in **Step 1** of Accelerator programming. The Weather Tools module uses the entered data to provide **accurate** and **specific** weather information.
- The Total Control system must have an **active internet connection** to receive weather updates.
- Ensure that the .TCM3 module has been **downloaded** and **imported** onto the programming computer.

  For more information on how to import a two-way module, please refer to the Working with Two-way Modules document.

The method of measuring weather data is **automatically** handled, based on the location data provided. US-based systems use **Imperial** (Fahrenheit) while most others use the **Metric** (Celsius) system.

General Information

Module: Weather Tools

Developer: URC

File Type: *.tcm3

Communication: IP

Category: Utility

Module Type: Core

Multiple Core Support: No

Unified: No

URC Compatibility: Flex 2 & Accelerator 3

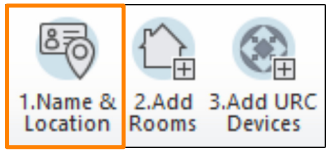
Device Events: Yes

Two-way Module Commands: Yes

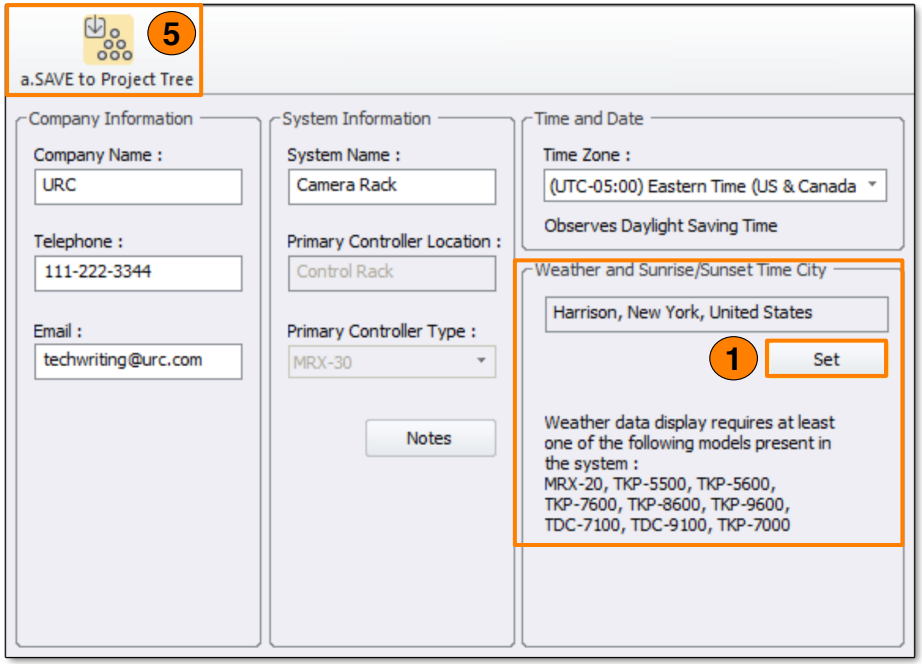
Weather Data

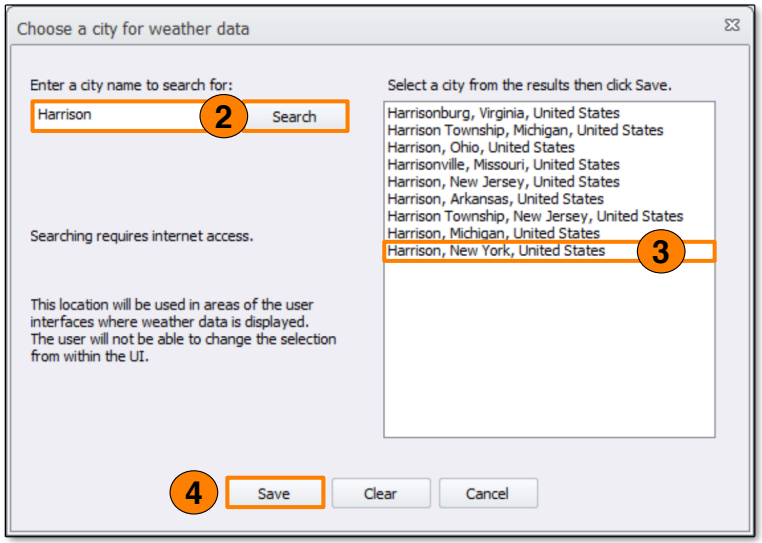
The Weather Tools module relies on the **weather location** being set in the first step of Accelerator programming. This step allows the module to pull data **specific** to the system location.

Step 1: Name & Location



1. Select **Set** from within the **Weather and Sunrise/Sunset Time City** field.
2. Enter the city name and select **Search**.
3. Select the **correct location** from the list of options.
4. Select **Save**. The window closes.
5. Select **Save to Project Tree**.





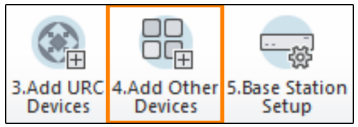
Adding & Configuring the Module

TCM files are found on the URC Dealer Portal. Once you have **downloaded** and **imported** the file, perform the following steps to add the module to a project:

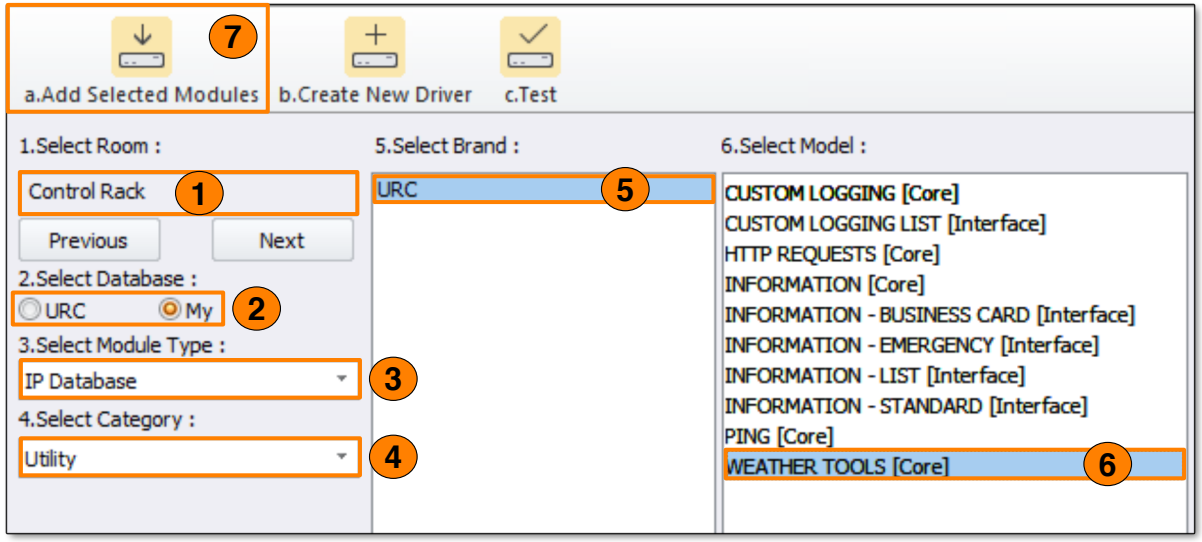
> For more information on two-way modules, what they are, where to find them, and how to import them, please review this guide.

The [Core] module can be added to any **new** or **existing** Total Control system.

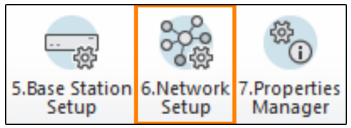
Step 4: Add Other Devices



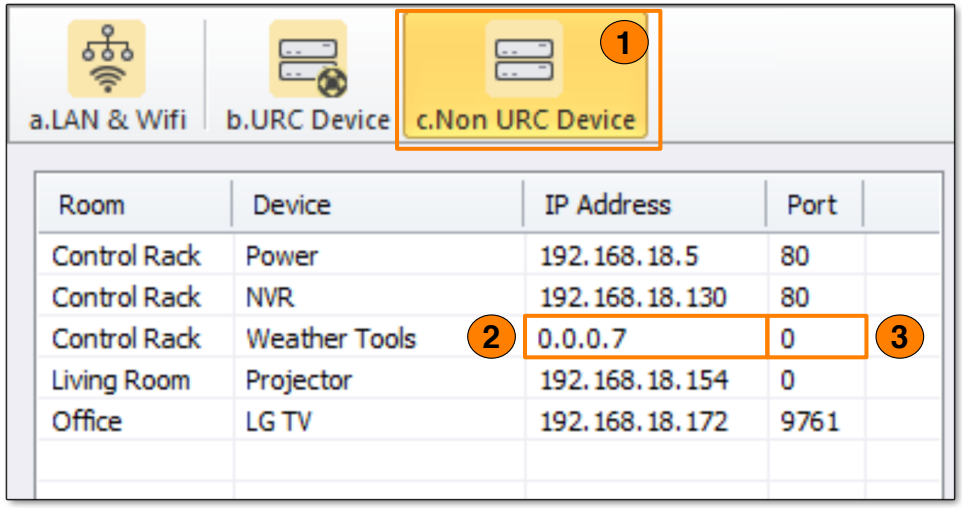
1. Select a **room** for the core to be added to.
2. Select **My Database**.
3. Select **IP Database**.
4. Select **Utility** category.
5. Select **URC** from the brand list.
6. Select **Weather Tools [Core]** from the model list.
7. Select **Add Selected Modules** to add it to the project.



Step 6: Network Setup



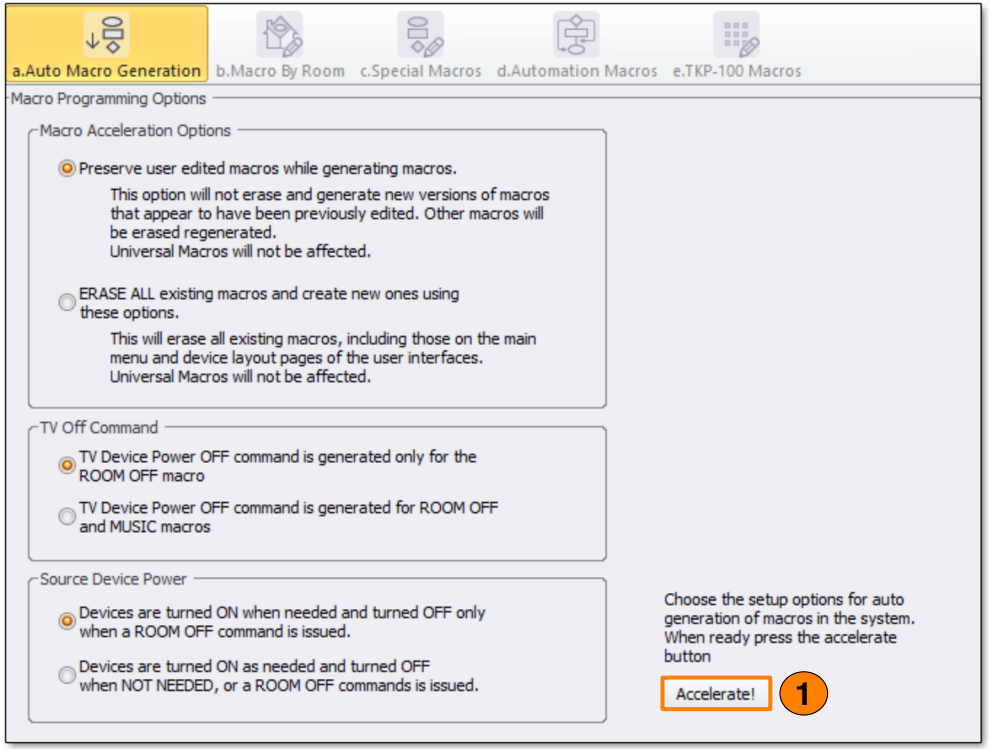
1. Select **Non URC Device**.
2. Enter a **dummy IP Address** for the **Weather Tools**. This IP address must be **unique** for the module to function properly.
3. The **Port** can be left as is.



While some modules do **not** require a real IP address, Total Control **requires** one be **entered** for the module to function properly in the system.

Step 12: Macro Editing

1. Select **Accelerate!**
2. Make additional programming changes as needed within the remaining steps. Once completed, save the project and **Download** to the system.



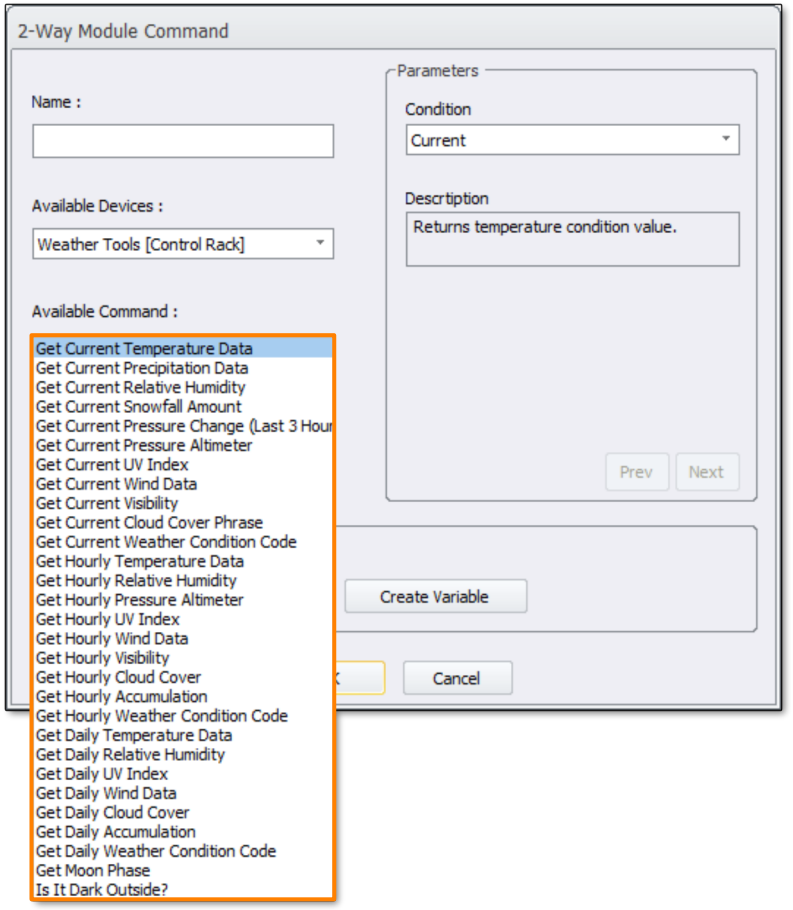
Two-way Module Commands

Two-way module commands are special functions that are derived from the two-way module, and are the only way to send discrete commands to the Weather Tools.

Query Commands

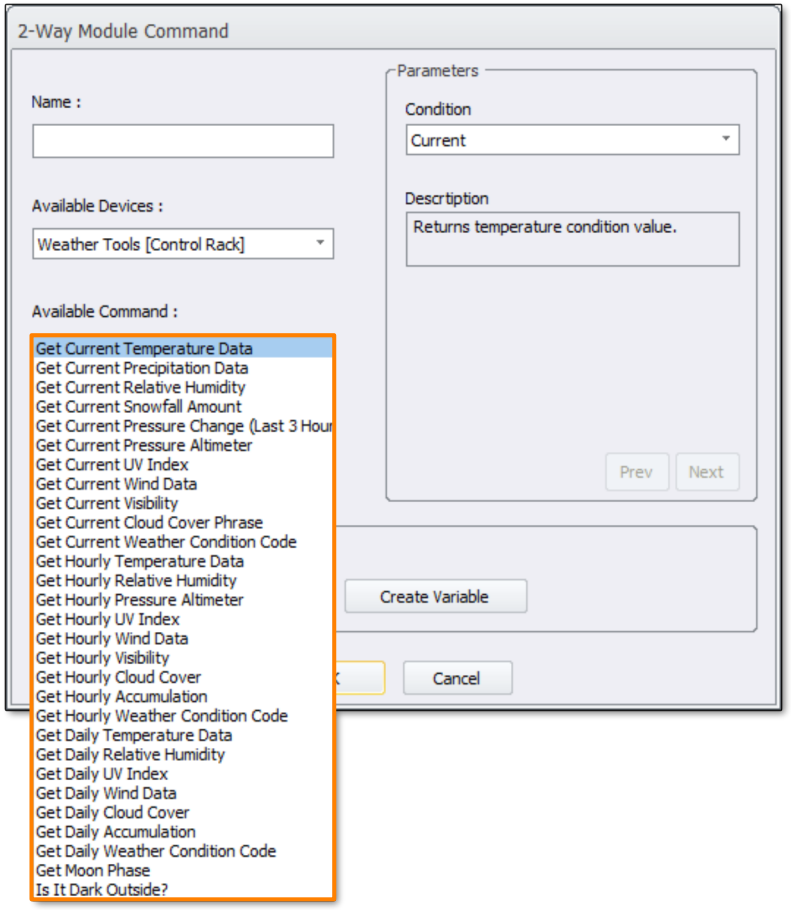
Query Commands allow the Total Control system to ask a device for information. The information can be saved as a variable and used in conjunction with conditional logic to create advanced reactive macros.

- **Get Current Temperature Data:** Reads the **current** specified condition.
- **Get Current Precipitation Data:** Reads the **current** precipitation for a specified period of time. [1 Hour | 6 Hours | 24 Hours]
- **Get Current Relative Humidity:** Reads the **current** relative humidity.
- **Get Current Snowfall:** Reads the **current** amount of snowfall for a specified period of time. [1 Hour | 6 Hours | 24 Hours]
- **Get Current Pressure Change (Last 3 Hours):** Reads the **current** pressure change over a period of three (**3**) hours. [Steady = 0 | Rising = 1 | Falling = 2 | Rapidly Rising = 3 | Rapidly Falling = 4]
- **Get Current Pressure Altimeter:** Reads the **current** pressure altimeter.



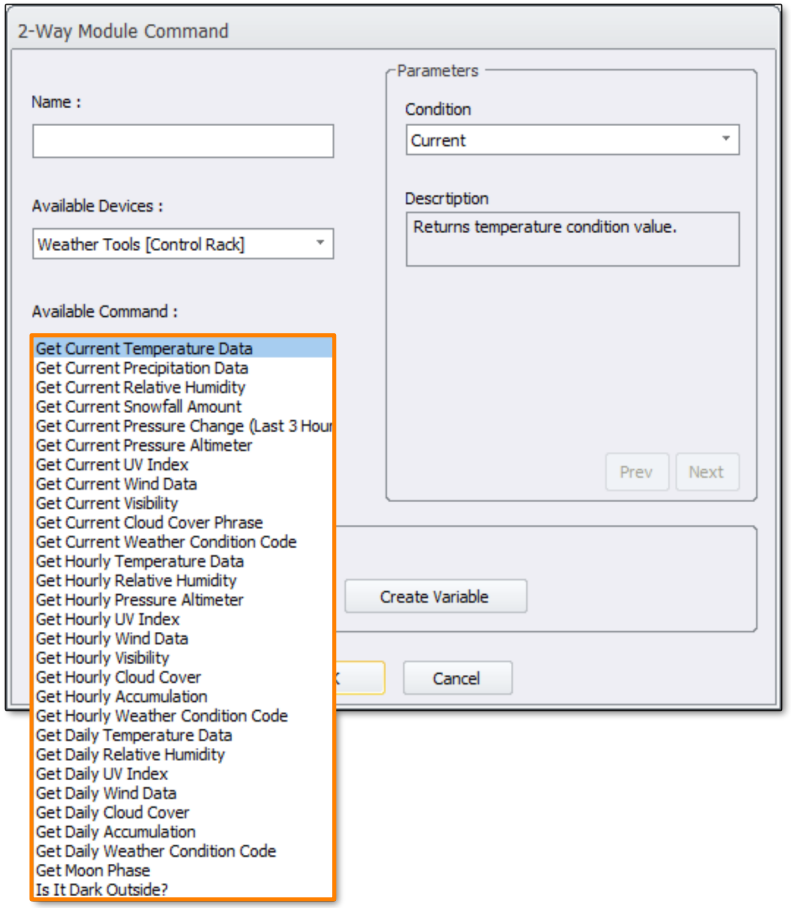
Query commands, variables, conditional logic, Device Events, and more are ONLY available within the **Total Control Experience**. If this option is not available, speak with a **URC Representative** for more details.

- **Get Current UV Index:** Reads the **current** UV index. [Not Available = -2 | No Report = -1 | Low = 0-2 | Moderate = 3-5 | High 6-7 | Very High = 8-10 | Extreme 11-16]
- **Get Current Wind Data:** Reads the **current** specified wind condition.
- **Get Current Visibility:** Reads the **current** visibility level.
- **Get Current Cloud Cover Phrase:** Reads the **current** cloud cover phrase. [Clear | Partly Cloudy | Mostly Cloudy | Cloudy]
- **Get Current Weather Condition Code:** Reads the **current** weather condition code. [Please visit page 10 for a list of all weather codes]
- **Get Hourly Temperature Data:** Reads the **hourly** forecast for temperature.
- **Get Hourly Relative Humidity:** Reads the **hourly** forecast for humidity levels.
- **Get Hourly Pressure Altimeter:** Reads the **hourly** forecast for pressure levels.
- **Ger Hourly UV Index:** Reads the **hourly** forecast for UV index.
- **Get Hourly Wind Data:** Reads the **hourly** forecast for wind speeds.
- **Get Hourly Visibility:** Reads the **hourly** forecast for visibility levels.



Query commands, variables, conditional logic, Device Events, and more are ONLY available within the **Total Control Experience**. If this option is not available, speak with a **URC Representative** for more details.

- **Get Hourly Cloud Cover:** Reads the **hourly** forecast for cloud cover.
- **Get Hourly Accumulation:** Reads the **hourly** forecast for accumulation levels.
- **Get Hourly Weather Condition Code:** Reads the **hourly** forecast codes for weather conditions. [Please visit page 10 for a list of all weather codes]
- **Get Daily Temperature Data:** Reads the **daily** forecast for temperature.
- **Get Daily Relative Humidity:** Reads the **daily** forecast for humidity levels.
- **Get Daily UV Index:** Reads the **daily** forecast for UV index.
- **Get Daily Wind Data:** Reads the **daily** forecast for wind speeds.
- **Get Daily Cloud Cover:** Reads the **daily** forecast for cloud cover.
- **Get Daily Accumulation:** Reads the **daily** forecast for accumulation levels.
- **Get Daily Weather Condition Code:** Reads the **daily** forecast weather code. [Please visit page 10 for a list of all weather codes]
- **Get Moon Phase:** Reads the **current** moon phase.
- **Is it Dark Outside:** Reads the **current** light level outside. [0 = No | 1 = Yes]

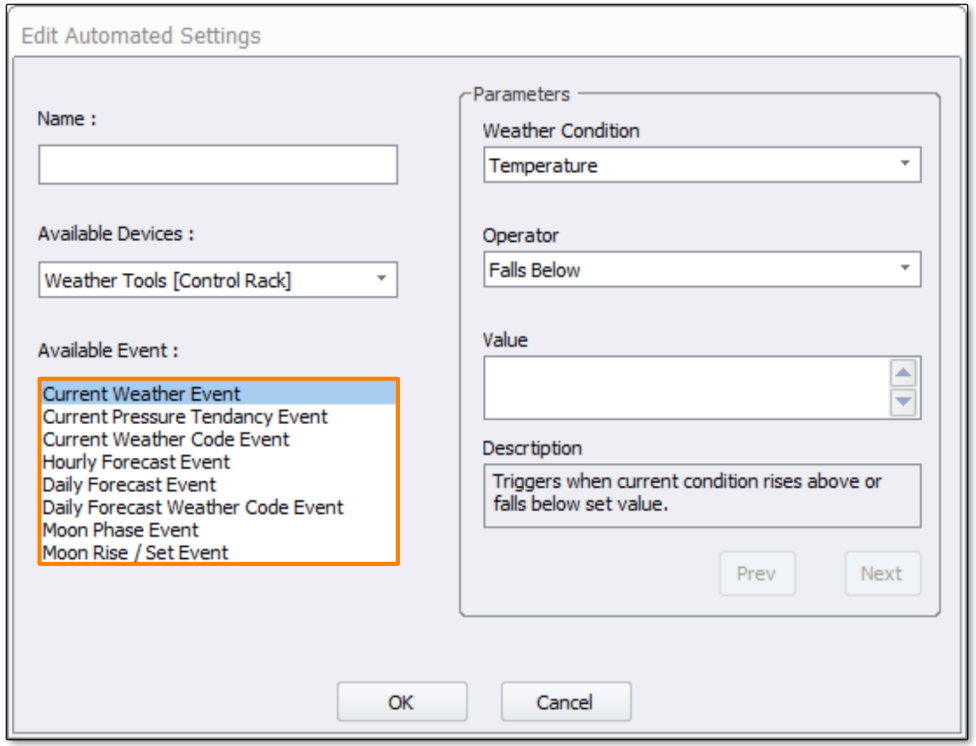


Query commands, variables, conditional logic, Device Events, and more are ONLY available within the **Total Control Experience**. If this option is not available, speak with a **URC Representative** for more details.

Device Events

The Weather Tools module has the ability to trigger custom macros based on device status changes.

- **Current Weather Event:** Triggers the macro when conditions **rise above** or **fall below** a specified value.
- **Current Pressure Tendency Event:** Triggers the macro when the **current** pressure rate changes. [Steady | Rising | Falling | Rapidly Rising | Rapidly Falling]
- **Current Weather Code Event:** Triggers the macro when a specified current weather code is **reported**.
- **Hourly Forecast Event:** Triggers the macro when hourly conditions **rise above** or **fall below** a specified value.
- **Daily Forecast Event:** Triggers the macro when daily conditions **rise above** or **fall below** a specified value.
- **Daily Forecast Weather Code Event:** Triggers the macro when a specified daily weather code is **reported**.
- **Moon Phase Event:** Triggers the macro when a specified moon phase **occurs**.
- **Moon Rise / Set Event:** Triggers the macro when the moon **rises** or **sets**.



Weather Codes

0 - Tornado [Night + Day]

1 - Tropical Storm [Night + Day]

2 - Hurricane [Night + Day]

3 - Strong Storms [Night + Day]

4 - Thunder and Hail [Night + Day]

5 - Rain to Snow Showers [Night + Day]

6 - Rain / Sleet [Night + Day]

7 - Wintry Mix Snow / Sleet [Night + Day]

8 - Freezing Drizzle [Night + Day]

9 - Drizzle [Night + Day]

10 - Freezing Rain [Night + Day]

11 - Light Rain [Night + Day]

12 - Rain [Night + Day]

13 - Scattered Flurries [Night + Day]

14 - Light Snow [Night + Day]

15 - Blowing / Drifting Snow [Night + Day]

16 - Snow [Night + Day]

17 - Hail [Night + Day]

18 - Sleet [Night + Day]

19 - Blowing Dust / Sandstorm [Night + Day]

20 - Foggy [Night + Day]

21 - Haze / Windy [Night + Day]

22 - Smoke / Windy [Night + Day]

23 - Breezy [Night + Day]

24 - Blowing Spray / Windy [Night + Day]

25 - Frigid / Ice Crystals [Night + Day]

26 - Cloudy [Night + Day]

27 - Mostly Cloudy [Night + Day]

28 - Mostly Cloudy [Day]

29 - Partly Cloudy [Night]

30 - Partly Cloudy [Day]

31 - Clear [Night]

32 - Sunny [Day]

33 - Fair / Mostly Clear [Night]

34 - Fair / Mostly Sunny [Day]

35 - Mixed Rain & Hail [Day]

36 - Hot [Day]

37 - Isolated Thunderstorms [Day]

38 - Thunderstorms [Night + Day]

39 - Scattered Showers [Day]

40 - Heavy Rain [Night + Day]

41 - Scattered Snow Showers [Day]

42 - Heavy Snow [Night + Day]

43 - Blizzard [Night + Day]

44 - Not Available (N/A) [Night + Day]

45 - Scattered Showers [Night]

46 - Scattered Snow Showers [Night]

47 - Scattered Thunderstorms [Night + Day]

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