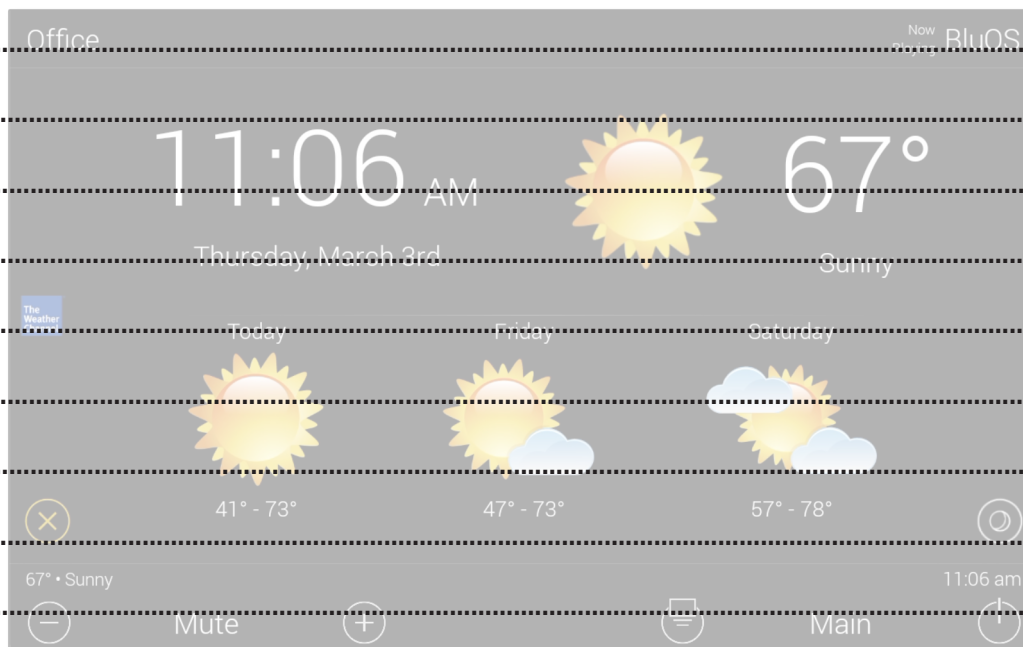


WEATHER TOOLS INTEGRATION GUIDE

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TOTAL CONTROL

WEATHER TOOLS INTEGRATION GUIDE

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

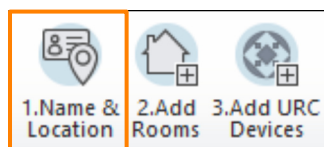
Device Events: Yes

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

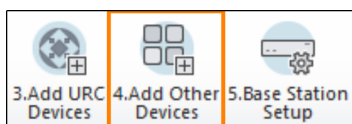
TCM files are found on the [URC Dealer Portal](#). Once you have **downloaded** and **imported** the file, perform the following steps to add the module to a project:



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.

The screenshot shows the 'Add Other Devices' window in the Total Control software. The window is divided into three main sections: 'a. Add Selected Modules', 'b. Create New Driver', and 'c. Test'. The 'a. Add Selected Modules' section is active and contains several steps: 1. Select Room (Control Rack), 2. Select Database (URC), 3. Select Module Type (IP Database), 4. Select Category (Utility), 5. Select Brand (URC), and 6. Select Model (Weather Tools [Core]). The 'Add Selected Modules' button is highlighted with a red circle.

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.

a.LAN & Wifi

b.URC Device

c.Non URC Device
1

Room	Device	IP Address	Port	
Control Rack	Power	192.168.18.5	80	
Control Rack	NVR	192.168.18.130	80	
Control Rack	Weather Tools	0.0.0.7	0	3
Living Room	Projector	192.168.18.154	0	
Office	LG TV	192.168.18.172	9761	

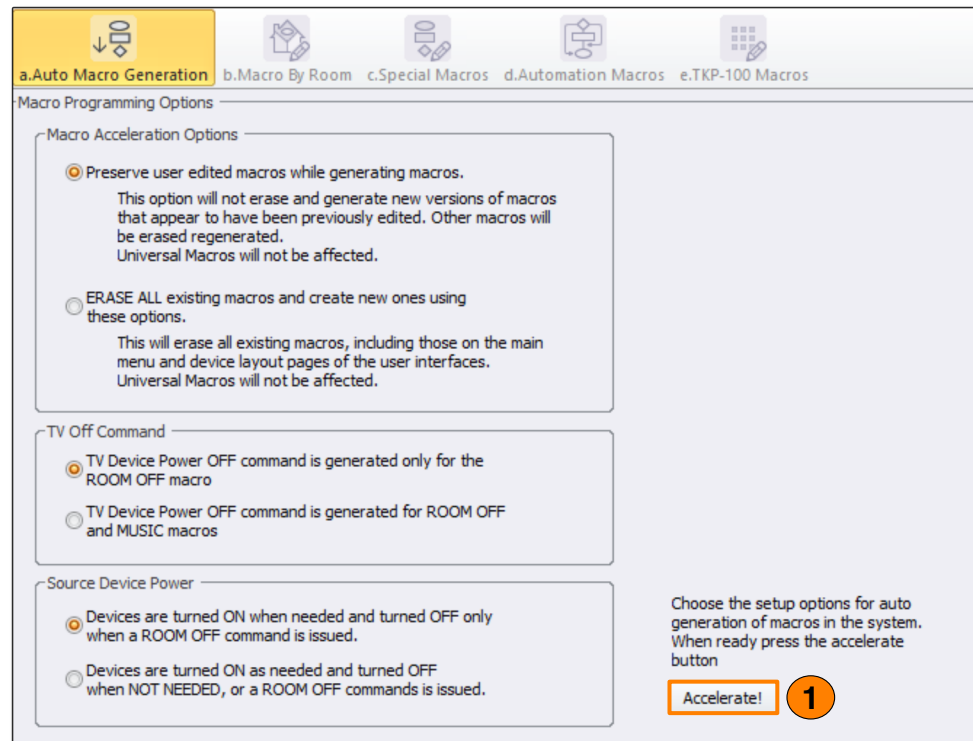


While some modules do **not** require a real IP address, Total Control **requires** one be **entered** for the module to function properly in the system.

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.



a. Auto Macro Generation b. Macro By Room c. Special Macros d. Automation Macros e. TKP-100 Macros

Macro Programming Options

Macro Acceleration Options

- ☒ Preserve user edited macros while generating macros.
This option will not erase and generate new versions of macros that appear to have been previously edited. Other macros will be erased regenerated. Universal Macros will not be affected.
- ☐ ERASE ALL existing macros and create new ones using these options.
This will erase all existing macros, including those on the main menu and device layout pages of the user interfaces. Universal Macros will not be affected.

TV Off Command

- ☒ TV Device Power OFF command is generated only for the ROOM OFF macro
- ☐ TV Device Power OFF command is generated for ROOM OFF and MUSIC macros

Source Device Power

- ☒ Devices are turned ON when needed and turned OFF only when a ROOM OFF command is issued.
- ☐ Devices are turned ON as needed and turned OFF when NOT NEEDED, or a ROOM OFF commands is issued.

Choose the setup options for auto generation of macros in the system. When ready press the accelerate button

Accelerate! **1**

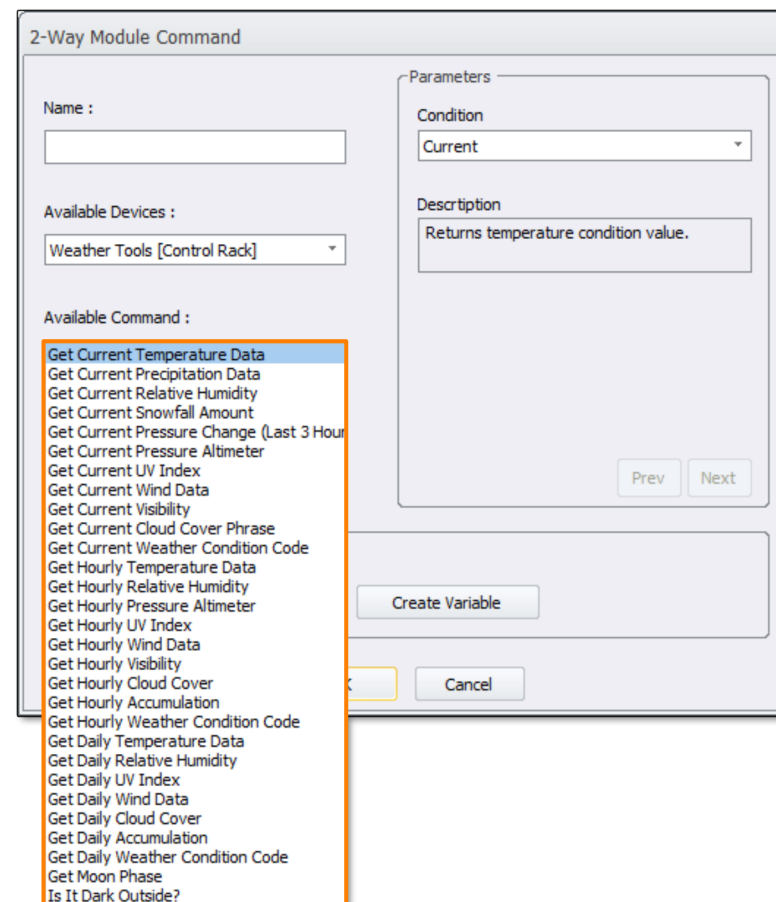
Two-way Module Commands

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

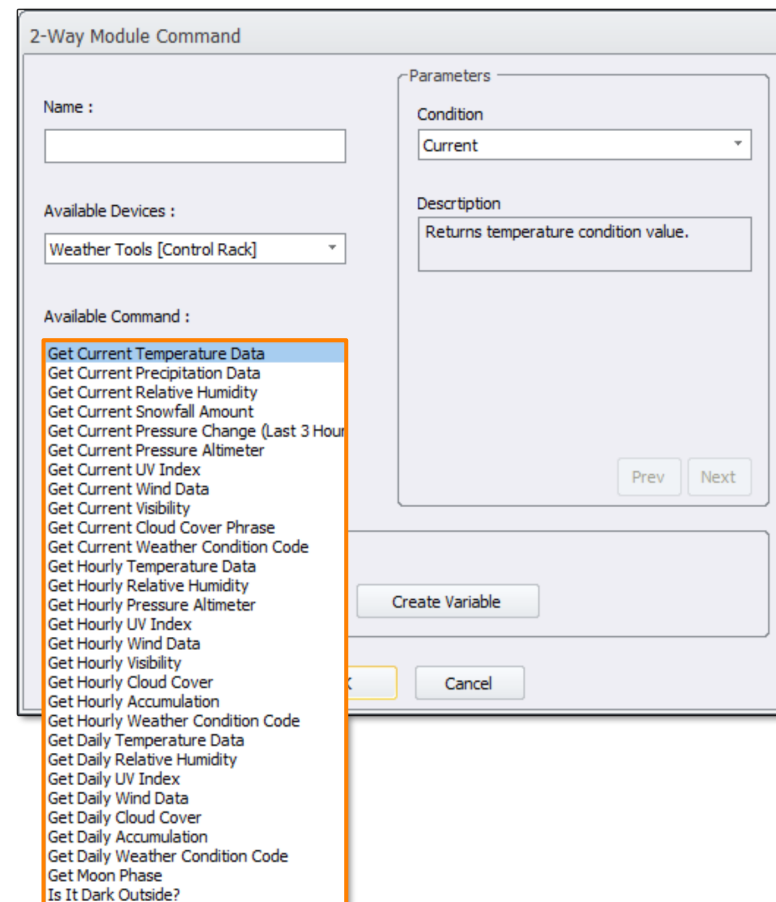
Query Commands allow the Total Control system to ask a device for information. The information can be saved as a variable and used in conjunction with conditional logic to create advanced reactive macros.

- **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.
- **Get 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.



2-Way Module Command

Name :

Available Devices :

Available Command :

- Get Current Temperature Data
- Get Current Precipitation Data
- Get Current Relative Humidity
- Get Current Snowfall Amount
- Get Current Pressure Change (Last 3 Hours)
- Get Current Pressure Altimeter
- Get Current UV Index
- Get Current Wind Data
- Get Current Visibility
- Get Current Cloud Cover Phrase
- Get Current Weather Condition Code
- Get Hourly Temperature Data
- Get Hourly Relative Humidity
- Get Hourly Pressure Altimeter
- Get Hourly UV Index
- Get Hourly Wind Data
- Get Hourly Visibility
- Get Hourly Cloud Cover
- Get Hourly Accumulation
- Get Hourly Weather Condition Code
- Get Daily Temperature Data
- Get Daily Relative Humidity
- Get Daily UV Index
- Get Daily Wind Data
- Get Daily Cloud Cover
- Get Daily Accumulation
- Get Daily Weather Condition Code
- Get Moon Phase
- Is It Dark Outside?

Parameters

Condition :

Description :

Prev Next

Create Variable

Cancel

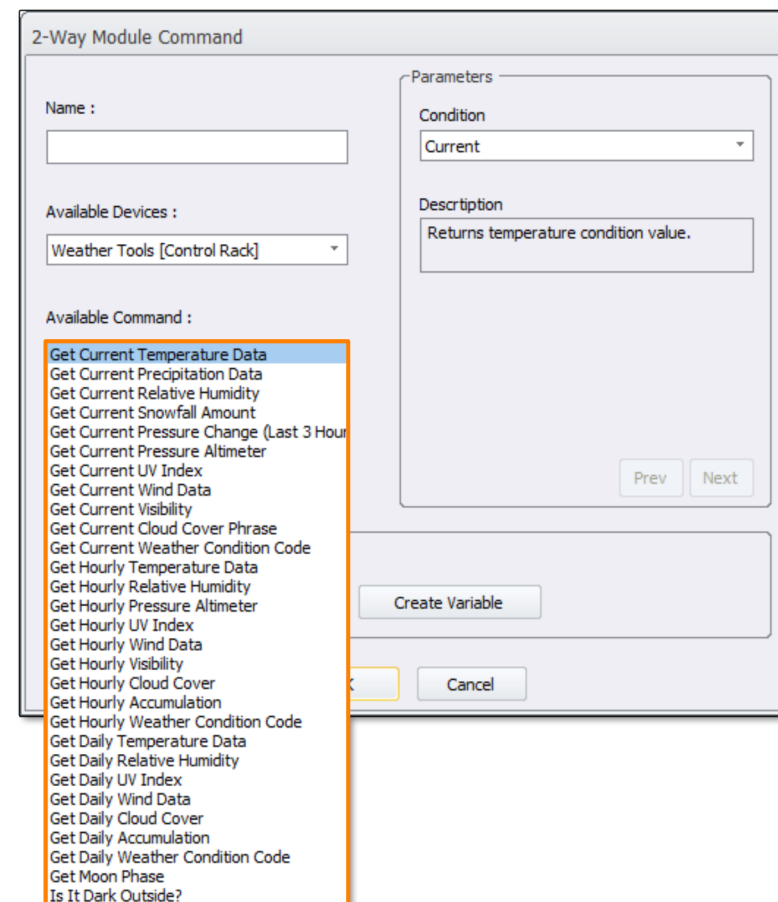


Query commands, variables, conditional logic, Device Events, and more are **ONLY** available within the **Total Control Experience**. If this option is not available, speak with a **URC Representative** for more details.

TOTAL CONTROL

WEATHER TOOLS INTEGRATION GUIDE

- **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]



2-Way Module Command

Name :

Available Devices :

Available Command :

- Get Current Temperature Data
- Get Current Precipitation Data
- Get Current Relative Humidity
- Get Current Snowfall Amount
- Get Current Pressure Change (Last 3 Hour
- Get Current Pressure Altimeter
- Get Current UV Index
- Get Current Wind Data
- Get Current Visibility
- Get Current Cloud Cover Phrase
- Get Current Weather Condition Code
- Get Hourly Temperature Data
- Get Hourly Relative Humidity
- Get Hourly Pressure Altimeter
- Get Hourly UV Index
- Get Hourly Wind Data
- Get Hourly Visibility
- Get Hourly Cloud Cover
- Get Hourly Accumulation
- Get Hourly Weather Condition Code
- Get Daily Temperature Data
- Get Daily Relative Humidity
- Get Daily UV Index
- Get Daily Wind Data
- Get Daily Cloud Cover
- Get Daily Accumulation
- Get Daily Weather Condition Code
- Get Moon Phase
- Is It Dark Outside?

Parameters

Condition :

Description :

Prev Next

Create Variable

Cancel

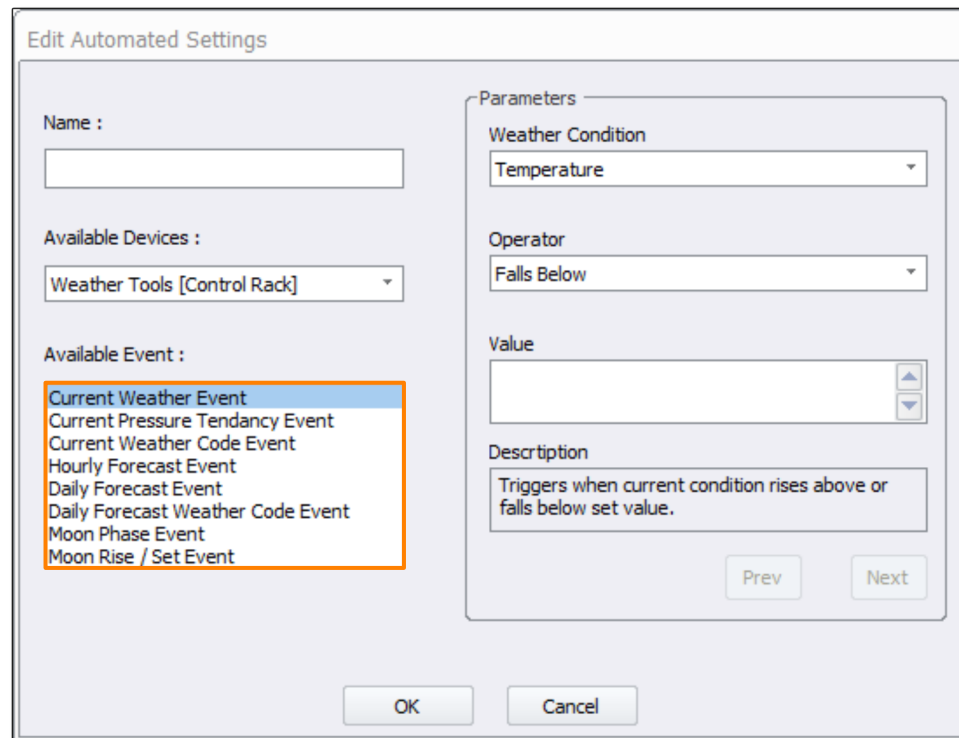


Query commands, variables, conditional logic, Device Events, and more are **ONLY** available within the **Total Control Experience**. If this option is not available, speak with a **URC Representative** for more details.

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**.



Edit Automated Settings

Name :

Available Devices :

Available Event :

- Current Weather Event
- Current Pressure Tendency Event
- Current Weather Code Event
- Hourly Forecast Event
- Daily Forecast Event
- Daily Forecast Weather Code Event
- Moon Phase Event
- Moon Rise / Set Event

Parameters

Weather Condition :

Operator :

Value :

Description :

Prev Next

OK Cancel

Weather Codes

0 - Tornado [Night + Day]	16 - Snow [Night + Day]	32 - Sunny [Day]
1 - Tropical Storm [Night + Day]	17 - Hail [Night + Day]	33 - Fair / Mostly Clear [Night]
2 - Hurricane [Night + Day]	18 - Sleet [Night + Day]	34 - Fair / Mostly Sunny [Day]
3 - Strong Storms [Night + Day]	19 - Blowing Dust / Sandstorm [Night + Day]	35 - Mixed Rain & Hail [Day]
4 - Thunder and Hail [Night + Day]	20 - Foggy [Night + Day]	36 - Hot [Day]
5 - Rain to Snow Showers [Night + Day]	21 - Haze / Windy [Night + Day]	37 - Isolated Thunderstorms [Day]
6 - Rain / Sleet [Night + Day]	22 - Smoke / Windy [Night + Day]	38 - Thunderstorms [Night + Day]
7 - Wintry Mix Snow / Sleet [Night + Day]	23 - Breezy [Night + Day]	39 - Scattered Showers [Day]
8 - Freezing Drizzle [Night + Day]	24 - Blowing Spray / Windy [Night + Day]	40 - Heavy Rain [Night + Day]
9 - Drizzle [Night + Day]	25 - Frigid / Ice Crystals [Night + Day]	41 - Scattered Snow Showers [Day]
10 - Freezing Rain [Night + Day]	26 - Cloudy [Night + Day]	42 - Heavy Snow [Night + Day]
11 - Light Rain [Night + Day]	27 - Mostly Cloudy [Night + Day]	43 - Blizzard [Night + Day]
12 - Rain [Night + Day]	28 - Mostly Cloudy [Day]	44 - Not Available (N/A) [Night + Day]
13 - Scattered Flurries [Night + Day]	29 - Partly Cloudy [Night]	45 - Scattered Showers [Night]
14 - Light Snow [Night + Day]	30 - Partly Cloudy [Day]	46 - Scattered Snow Showers [Night]
15 - Blowing / Drifting Snow [Night + Day]	31 - Clear [Night]	47 - Scattered Thunderstorms [Night + Day]

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