



Z2IO (ZIGBEE IO) THERMOSTAT

This virtual Z2IO (Zigbee IO) Thermostat driver allows you use a Control4 Z2IO (Zigbee IO) device as a thermostat. This leverages the temperature sensor(s) available with the Z2IO as well as relays provided by the Z2IO itself or by other devices in the project. Heating or Cooling capabilities are provided as well as optional control of a Fan device. Presets and Schedule are supported, including Hold mode. The driver also offers some minimum Off and minimum On time facilities, as well as other safeguards to improve availability.

IMPORTANT DISCLAIMER: THIS VIRTUAL DRIVER HAS NOT RECEIVED ANY OFFICIAL CERTIFICATIONS. TEST IT THOROUGHLY IN YOUR OWN ENVIRONMENT AND THEN USE IT RESPONSIBLY.

INSTRUCTIONS

- Use the free trial period or activate the driver at any time by assigning to this project the license you purchased from the DriverCentral website (requires the DriverCentral cloud driver). You may use multiple copies of this driver in your project.
- First, select a Control4 Z2IO device already installed in your project. In addition to its internal temperature and humidity sensors, it may also have a remote temperature sensor. All these will be detected automatically by the driver. No connections are required.
- The driver will automatically detect the presence of Control4's Weather Station driver if installed in the project. All connections will be made automatically, so no further action is needed. Since the temperature provided by the Weather Station driver is essentially an Outdoor Temperature, it will be displayed as such.
- You may select and connect relay(s) in the Z2IO device itself or other relays in the project. The relays would equate to normal HVAC as follows: W (Heating), Y (Cooling) or G (Fan).
- Specify the equipment/safeguard times as required.
- You may use the optional Delta Events. Simply set the Temperature Events property to the appropriate value (see the properties under *Optional Functions* below).
- A Hold Mode is available when using Presets and Schedule. When Hold is set to "Permanent", all Presets changes (manually, by Schedule or by Programming) are ignored except if a Preset specifically contains a "Hold Mode" "Off" command. When Hold is set to Off manually or by Programming, the most recently requested (but ignored) Preset is activated. Presets may also contain a "Hold Mode" "Permanent" command which causes Hold to be set to "Permanent" after the Preset is activated in the thermostat.

- An Action and a programming Command are available to turn the thermostat Off immediately (even if still within the Minimum On period). Otherwise, the thermostat will remain On for the *Minimum ON Time* specified.
- When you are done, Refresh Navigators.

PROPERTIES

- **Cloud Status** displays the status of the DriverCentral license or trial.
- **Automatic Updates** may be set to On to allow for DriverCentral updates.
- **Driver Version** displays the version of this driver.
- **Driver Information** displays various status messages about the driver.
- **Debug Mode** turns Debug Mode Off or On (with output to the Lua Output window).
- **Debug Duration in Minutes** sets the duration of Debug On.

Main Properties

- **Select Control4 Z2IO Device** selects the Z2IO device to be used by this driver. The Z2IO device provides internal (Local) temperature and humidity and optionally, via a connected remote sensor, a Remote temperature. This driver automatically links to these readings.
- **Select Operating Mode** allows the driver to act as a Heating or a Cooling thermostat (but not at the same time).
- **Select Controlling Temperature** determines which temperature(s) will be considered as the controlling temperature and displayed on the virtual thermostat. Local and Remote temperatures are always displayed separately in the Extras tab.
- **Control Sensitivity** determines how far away from the setpoint the controlling temperature needs to be to trigger Heating (lower than the setpoint) or Cooling (higher than the setpoint). Heating or Cooling always stop when the controlling temperature reaches the setpoint, subject to the *Minimum ON Time*.
- **Relay 2 Usage** specifies if a second relay is used to activate a second Heating or Cooling device (mirroring Relay 1), or a Fan device, much as a regular thermostat with FAN On and FAN Auto.
- **Minimum OFF Time in Seconds** specifies the minimum Off time if required by the equipment. 'Equipment Wait' will be displayed if there is a Heating/Cooling call while the virtual thermostat is within its minimum Off time window and Heating/Cooling will be postponed momentarily. Otherwise, set this to 0. **IMPORTANT:** if you set this to 0 and the *Maximum ON Time* is used, the driver will still enforce an Off time following the *Maximum ON Time* shutdown. The Off duration will be the lesser of the *Maximum On Time* and 5 minutes.

- **Minimum ON Time in Seconds** specifies the minimum On time if required by the equipment. 'Equipment Wait' will be displayed if the Heating/Cooling call disappears while the virtual thermostat is within its minimum On time window and Heating/Cooling will remain On momentarily. Otherwise, set this to 0.
- **Maximum ON Time in Minutes** specifies the maximum time the Heating or Cooling device may be turned On. This is a safeguard to protect the equipment or also to prevent over-heating or over-cooling, to some extent. Set to 0 if this safeguard is not required.
- **Sensor Watchdog in Minutes** specifies the maximum acceptable time interval to receive no temperature update from the Z2IO. This situation would trigger an *Immediate Off*. Set to 0 if this facility is not required, as some installations may have very stable temperatures. This may also be used to prevent Heating or Cooling during a Z2IO malfunction.

Optional Functions

- **Temperature Events:** allows you to specify if events are used and what will be the baseline temperature: either the current active setpoint or a fixed value.
- **Temperature Event x Delta:** allows you to specify up to four deltas where an event will be triggered if the actual control (room) temperature is too far (higher or lower) from the baseline specified in the Temperature Events property. The deltas may range from -20 to +20 and should be specified in the thermostat's current scale. Example: 6 will trigger the event when the room temperature exceeds the baseline by 6 degrees or more. Only the highest delta (positive or negative) will be triggered. You may specify up to 4 Events, in any order and set an Event to 0 to disable it.

Informational Properties

- **Z2IO Local Temperature/Humidity** displays the current local temperature and humidity values reported by the Z2IO (when connected).
- **Z2IO Remote Temperature** displays the current remote temperature reported by the Z2IO (when connected, with a remote temperature sensor connected).
- **Outdoor Temperature** displays the current Outdoor Temperature supplied by the Control4 Weather Station driver (if installed in the project).
- **Current Hold Mode** displays the thermostat's current Hold Mode.
- **Current HVAC State:** displays the current HVAC State.
- **Current Relay States:** displays the current states of the control relays.

SUPPORT

For support on this driver please go to [DriverCentral Support](#). Give a detailed description of the problem and include the version number of the driver as well as the Control4 OS version you are using.

AUTO UPDATE

This driver is updated with fixes and new features from time to time. To ensure your project uses the latest version, set the Automatic Updates property of the driver to On.

CHANGELOG

10.0.0 May 21, 2026 Initial Release

© 2026 Domosapiens inc.
All Rights Reserved