

Latch/Toggle Control for Push Button and Touch Button Inputs



Latch/Toggle for Host Systems or Scripting

For most models, use the DIP switches to set latch and toggle modes. Not all models have a DIP switch setting for Latch mode. If your model does not have those DIP switch settings, use the User Configuration Tool to enable latch or toggle inputs.

1. Set the DIP switch to allow the User Configuration Software to configure the device and ignore the DIP switch settings.
2. Connect the Gateway to the computer with the software installed and launch the software.
 - a. Click **Device > Connection Settings**.
 - b. Select appropriate connection type (**Serial** or **TCP**).
 - c. Select the correct COMM port or enter the IP Address and click **Connect**.
3. Go to **Configuration > Device Configuration**.
4. For the Node you are configuring, click **GET Node** to load all of that Node's parameter settings.
5. Click on the arrow next to the Node to expand the list of that Node's inputs and outputs.
6. For the specific input, click on the arrow next to the input number to expand those parameters.
7. Under the **Serial options** section, select **Latch** or **Toggle** or **None** (momentary) in the **Sync Counter's** drop-down list.
8. Click **SEND Node** to send the changes to that Node's parameters to the network.

Latch

After an input is activated (set to 1) with a button press or using the messages, the input remains at 1 until cleared or alternated by writing to I/O 15. Latching prevents a successive button press from setting the input to 0.

Toggle

The input toggles between 0 and 1 with successive button pushes or touches. Write to I/O 15 to clear the toggle or to alternate the current state of the toggle.

To change the latch/toggle register value using a host system, write the following to the Node's I/O point 15:

Table 1: Latch/toggle register values

For I/O point	Write this decimal value	
	To clear the register value	To alternate the state of the latch/toggle register value
1	5377	5505
2	5378	5506
3	5380	5508
4	5384	5512
5	5392	5520
6	5408	5536
All Points	5439	5567



Important: DO NOT write these values to I/O 15 if the device is used in momentary mode.