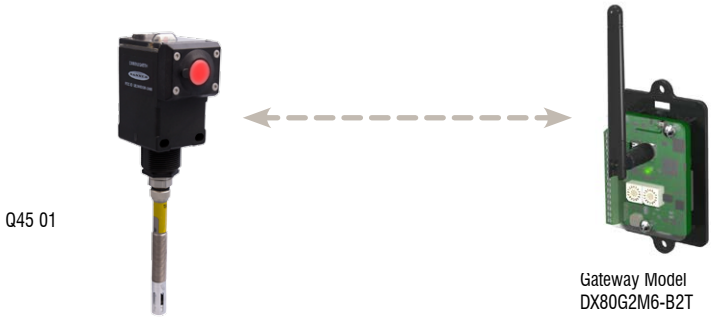
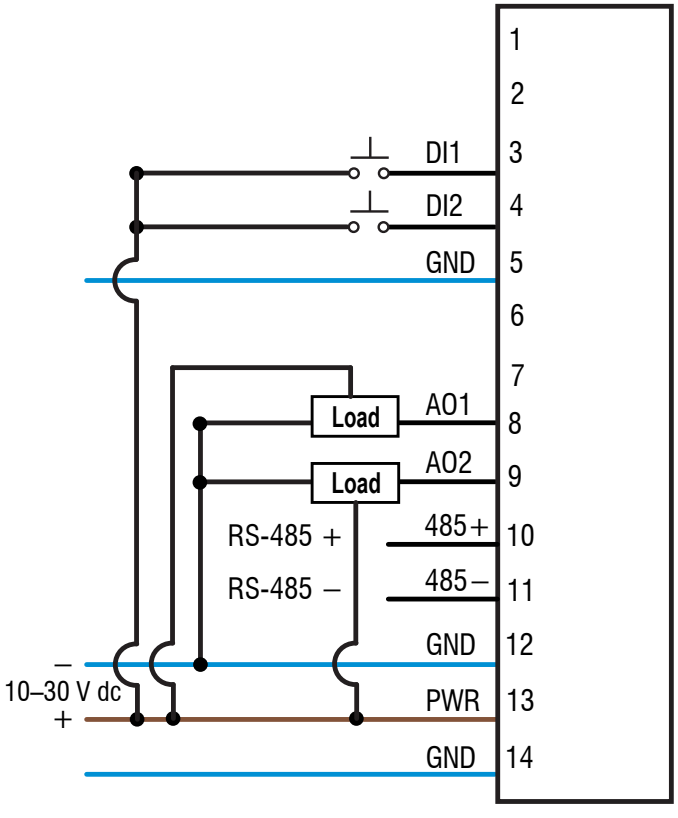
Quick Start Guide for a Wireless Q45 Temp/Humidity Solution Using the -B2T Gateway

This Quick Start Guide describes how to configure a wireless network with one Wireless Q45 Temperature/Humidity Sensor Node or Wireless Q45 Temperature Only Sensor Node and one DX80G2M6-B2T Gateway using the Gateway's DIP switch-based mapping.



Step 1: Wire the Gateway's Power and I/O

Wire the power, discrete I/O, and analog I/O on the Gateway according to the wiring diagram shown. To create a network with up to 47 Nodes, use a PLC and Modbus to map the I/O.

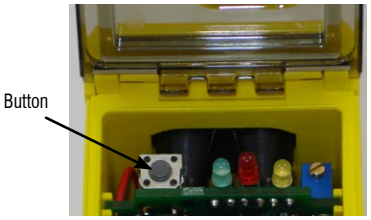


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Step 2: Apply Power to the Wireless Q45 Sensors

To conserve battery power, the Wireless Q45 Sensor ships from the factory in storage mode. To wake the Q45:

1. Loosen the clamp plate on the top of the Wireless Q45 Sensor and lift the cover.
2. Press and hold the button for five seconds. When the Q45 is on, the red LED flashes.



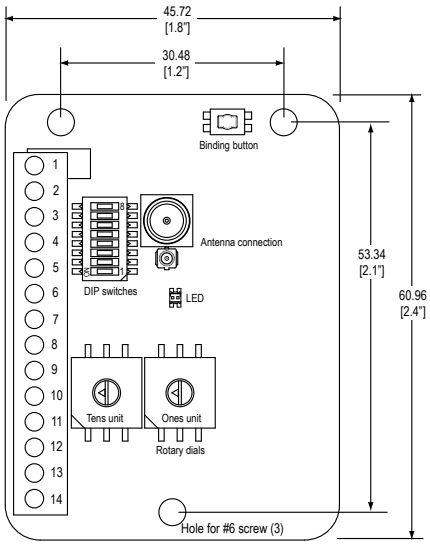
Step 3: Bind the Wireless Q45 Sensors to the Gateway

Binding Wireless Q45 Sensors to their Gateway ensures the Q45s only exchange data with the Gateway they are bound to. To create your network, bind the Wireless Q45 Sensors to the Gateway and assign them a unique Node address.

1. On the Gateway, enter binding mode by triple-clicking the button.

   The LED flashes red and green alternately.
2. On the Gateway, use both rotary dials to assign the Node address for the Q45. Use the left dial for the left digit and the right dial for the right digit. For example, to assign your Q45 to Node 01, set the left dial to 0 and the right dial to 1.
3. On the Wireless Q45 Sensor, enter binding mode by triple-clicking the button.

   While in binding mode, the red and green LEDs flash alternately. After the Q45 is bound, the LEDs flash together four times. The Q45 automatically exits binding mode.
4. On the Gateway, single-click the button to exit binding mode.



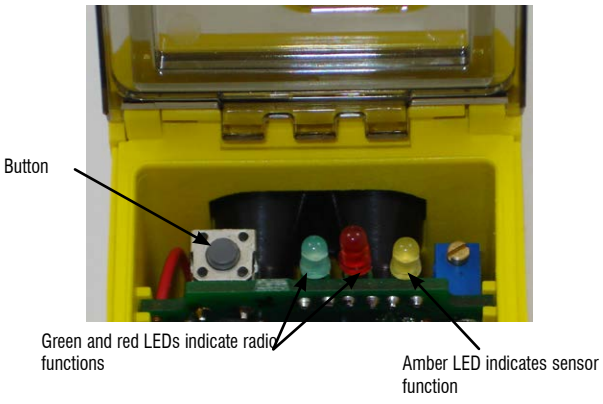
Step 4: Verify Radio Communication

To verify the Gateway and Wireless Q45 Sensor are communicating:

- Gateway's LED is solid green.
- Until communication is established with the Gateway, the Q45's red LED flashes.
- After communication is established, the Q45's green LED flashes.

Step 5: Test the Wireless Q45 Sensor Operation

Mount the Wireless Q45 Sensor in your application and monitor the 4 to 20 mA analog output signals, which vary with changes in both temperature and humidity.



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