The Performance -P6 Node and temperature/humidity sensor are designed to work together. The sensor is available in two versions: the FTH4Q senses temperature and humidity while the FT4Q model senses only temperature.

This is a plug-and-play battery-powered solution that offers a battery life of more than four years.

**Step 1: Connect Sensor and Node**

Plug the sensor into the Node.

**Step 2: Apply power to the Node**

The Node ships from the factory with the battery installed, but the Node is in storage mode. To turn the Node on, press and hold button 1 for five seconds.

The LEDs start to blink and the display begins to cycle through the menu system.
**SureCross® Quick Start Guide for Performance -P6 Node and M12TFH4Q Temperature/Humidity Sensor**

**Step 3: Read the Temperature and Humidity on the LCD**
After the Node exits Storage Mode, it cycles through the *RUN menu, displaying the following information:

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>*RUN</td>
<td>Indicates the device is displaying the RUN menu</td>
</tr>
<tr>
<td>NID 1</td>
<td>Not used</td>
</tr>
<tr>
<td>&lt;DEV&gt; NOD1</td>
<td>Displays the Node address, in this case, 01 using the rotary dials</td>
</tr>
<tr>
<td>I/O1 55.0 RH</td>
<td>Relative Humidity %</td>
</tr>
<tr>
<td>I/O2 25.2C</td>
<td>Temperature in Celsius</td>
</tr>
<tr>
<td>I/O3 77.4F</td>
<td>Temperature in Fahrenheit</td>
</tr>
</tbody>
</table>

If this information is not displayed, the Node is not in within the *RUN menu. Press button 1 to cycle through menu options until you reach the *RUN menu.

**Step 4: Bind the P6 Node to its Gateway**
Before binding the Node to its Gateway, first verify the Gateway is powered. After the Gateway is powered up, follow these steps:

1. On the Gateway, triple-click button 2.
   Both LEDs flash red.
2. On the -P6 Node, verify the rotary dials are set to 01.
   Both LEDs flash red.
4. After the Node completes the binding procedure, it automatically exits binding mode and enters Run mode.
5. On the Gateway, double-click button 2 to exit binding mode.

**Step 5: Check the remote data using the Gateway’s LCD**
The Gateway display can be used to view the nodes *RUN menu. This is done by setting the rotary dials on the Gateway to the Node address you want to view (in this example, 01). The information is identical to what you see at the Node.

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If this information is not displayed, the Gateway is not in within the *RUN menu. Press button 1 to cycle through menu options until you reach the *RUN menu.
Step 6 (optional): Check the remote data at the Gateway using Modbus RTU

The information from the Nodes is available via Modbus RTU registers. The easiest way to display the I/O information is using the User Configuration Tool (UCT) software.


After downloading the software, use a USB to RS-485 adapter cable, model BWA-UCT-900, to connect the Gateway to your computer and launch the UCT software.

1. Select the Register View tab at upper left.
2. Select the temperature humidity demo.
4. Displays the raw humidity and temperature data.
   a. Register 1 shows 4454. Divide by 100 to get 44.54% Relative Humidity
   b. Register 2 shows 467. Divide by 20 to get 23.35 °C
   c. Register 3 shows 1479. Divide by 20 to get 73.95 °F
The manufacturer does not take responsibility for the violation of any warning listed in this document.

**CAUTION. Make no modifications to this product.** Any modifications to this product not expressly approved by Banner Engineering could void the user's authority to operate the product. Contact the Factory for more information.

**Lightning Arrestors/Surge Protection.** Always use lightning arrestors/surge protection with all remote antenna systems to avoid invalidating the Banner Engineering Corp. warranty. No surge protector can absorb all lightning strikes. Do not touch the SureCross device or any equipment connected to the SureCross device during a thunderstorm.

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application of the Banner product.

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