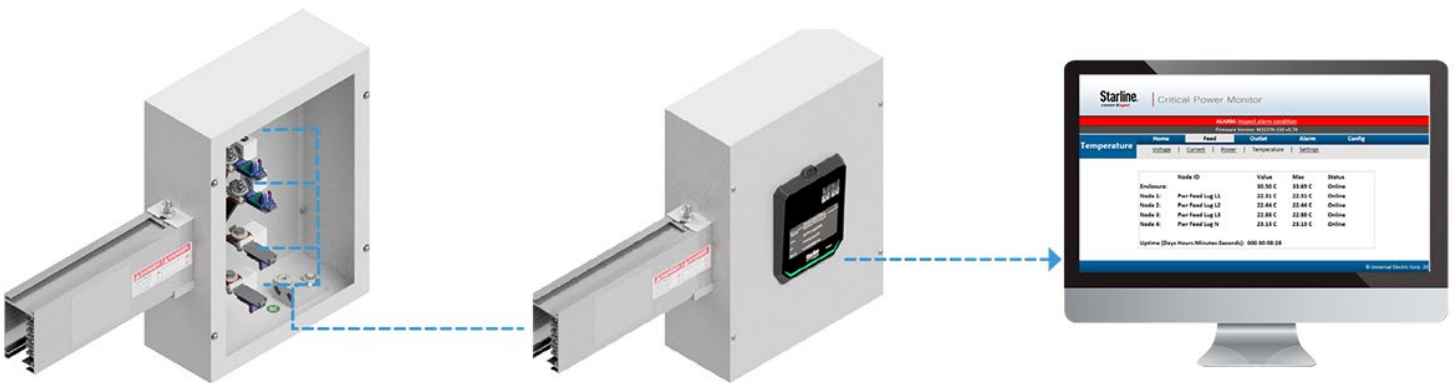


800/1000/1200T5

TEMPERATURE NODE INSTALLATION INSTRUCTIONS



Temperature Node Field Installation Instructions – 1000T5 & 1200T5

Introduction:

The critical power monitor platform offers temperature monitoring for electro-mechanical lugs located in feed units for Starline busway. The temperature monitoring is available in both wireless and wired options.

Wired Temperature Node:

Familiarize yourself with the temperature node components as shown below in Figure 1. These components will be referenced throughout the installation instructions. The sensors will come mounted onto the brackets with a zip-tie; the zip-tie is rated for elevated temperatures and does not need to be removed during operation.

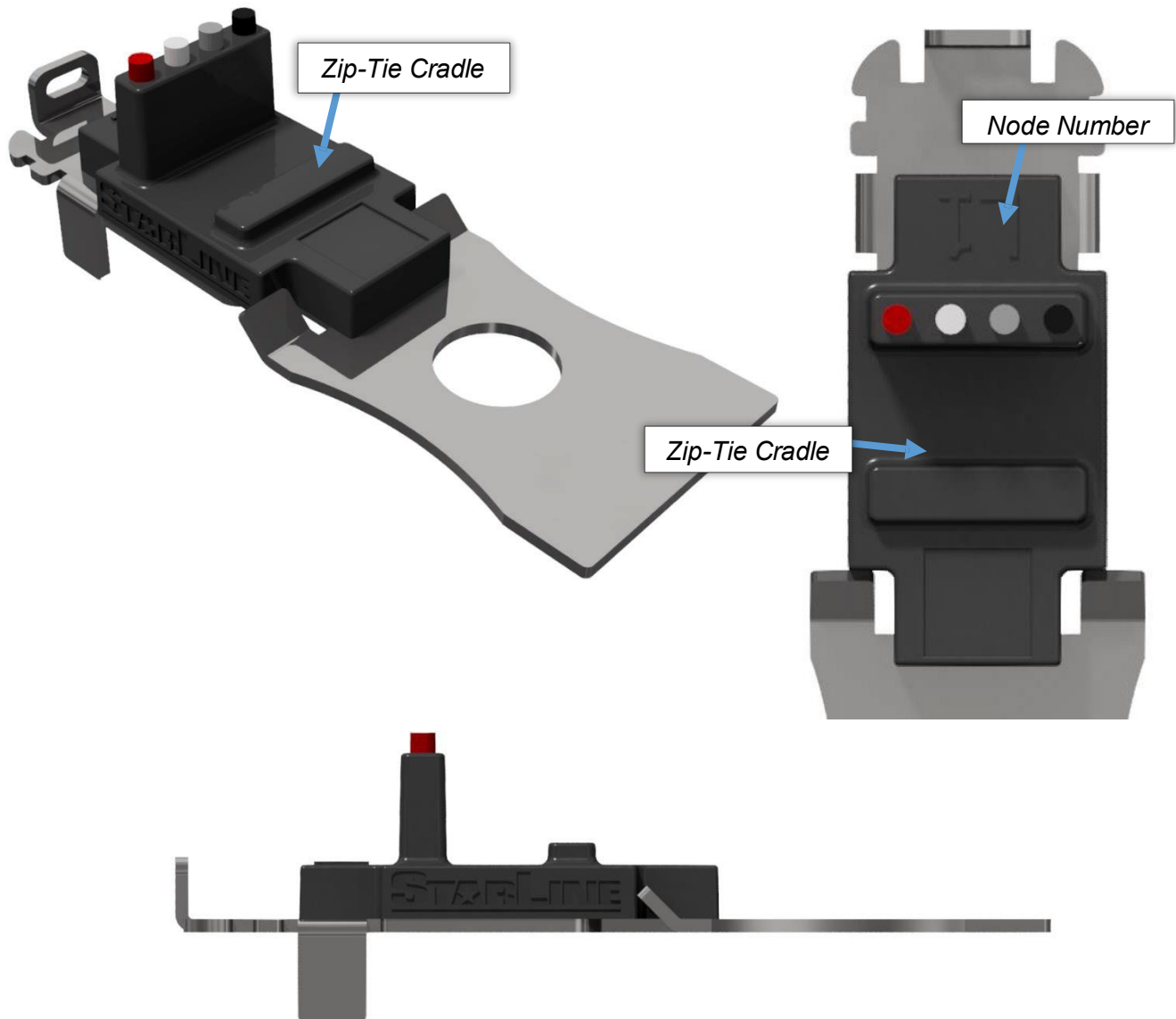


Figure 1 – Displays wired temperature node components

1000T5 & 1200T5 Mechanical Lug Design (Go to page 6 for Compression Lugs)

1. Familiarize yourself with the end feed layout and connection points.

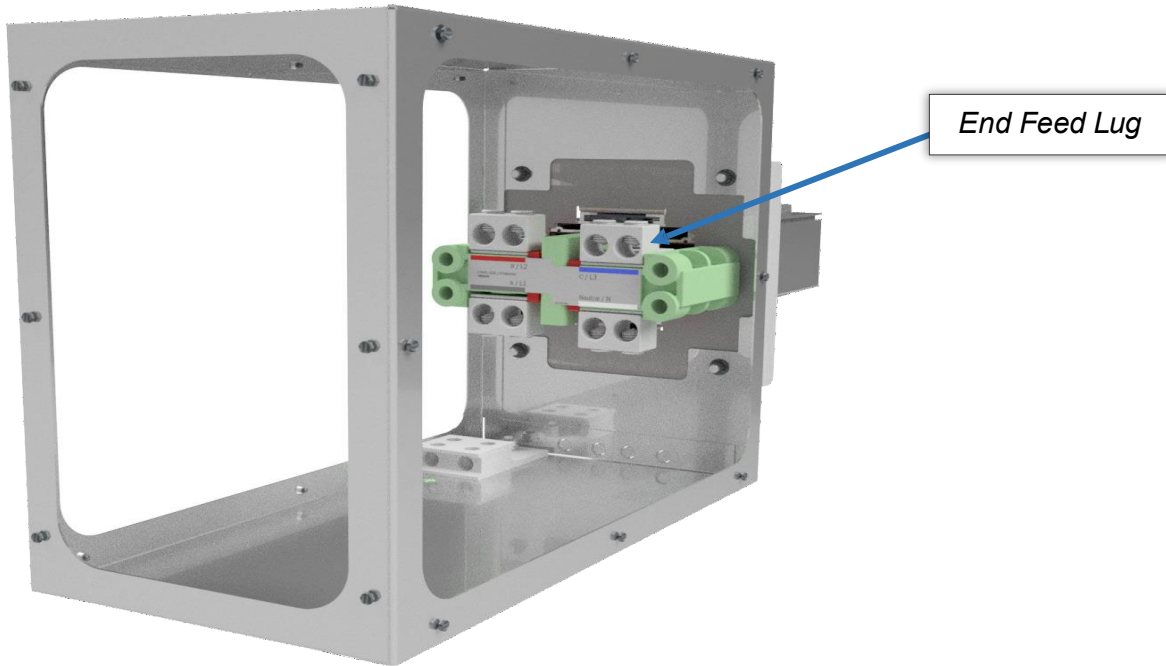


Figure 2 – Displays the 1000T5/1200T5 mechanical lug end feed

2. Remove the end feed lugs from the blades utilizing a $\frac{3}{4}$ " wrench.
3. When installing the conductor to the mechanical lugs make sure that the wire does not protrude through the hole as shown in Figure 4 below. This will cause an interference with the node bracket.

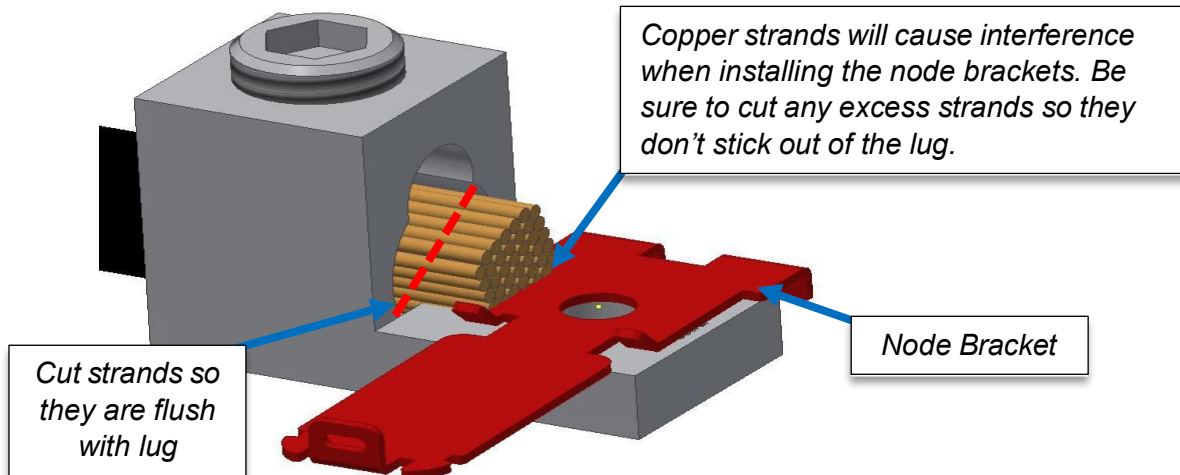


Figure 3 – Displays potential issues with copper strands from the lug

5. Install the node brackets as shown in Figure 5. Pay close attention to the component stack-up in the blown-up images.
 - a. Exact placement shown in Figure 4 is necessary to achieve the required creepage and clearance distances mandated by UL 857 & IEC 61439.
 - b. Each component (temperature node, node bracket, and mechanical lug) will be labeled to identify the correct location for installation (L1, L2, L3, N). Use these labels to ensure each component is installed on the correct phase.
 - c. Note: The node bracket will want to rotate when tightening down the bolts. Be sure to hold the node bracket in place so it is perpendicular to lug (as shown in Figure 4).

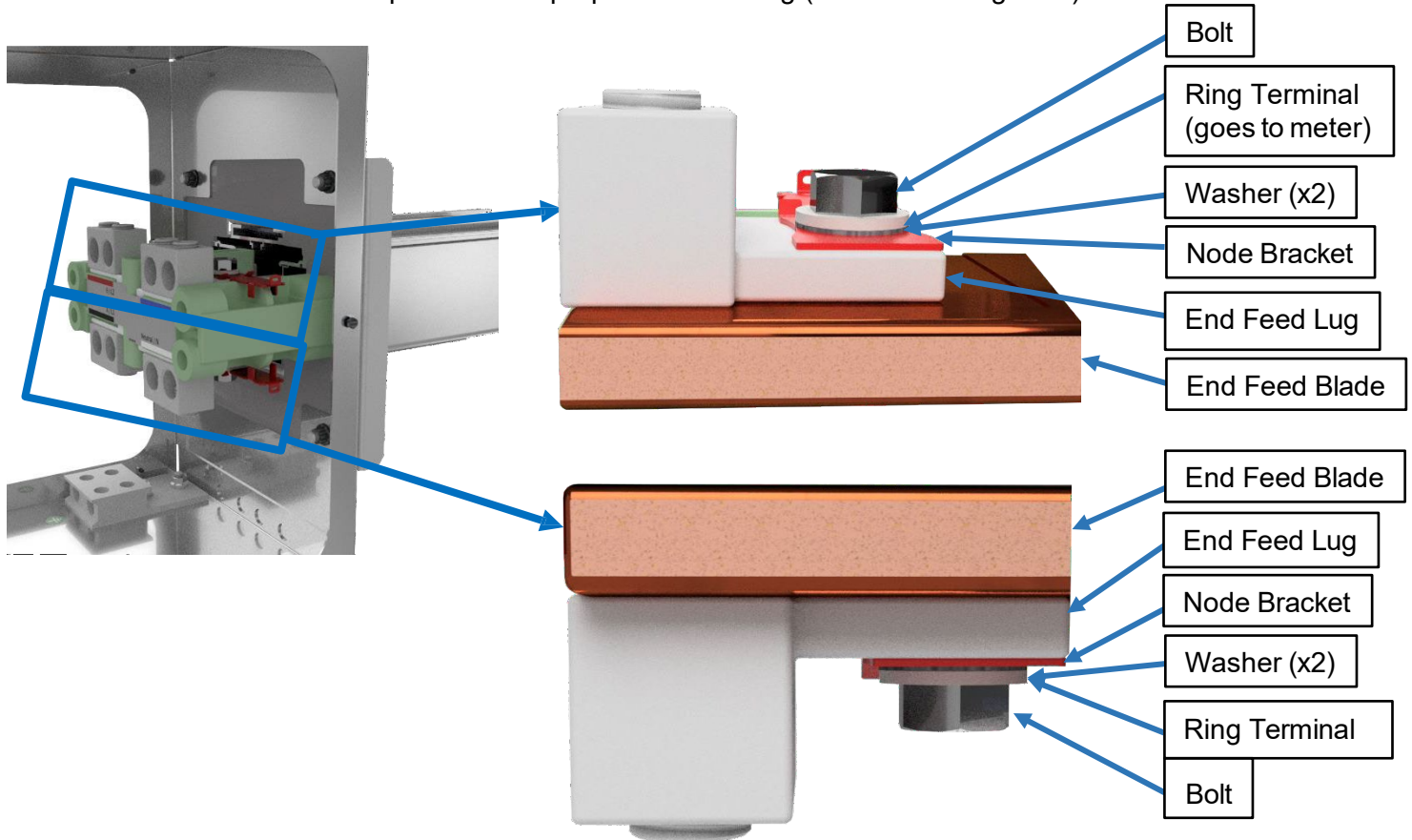


Figure 4 – Displays node bracket location in mechanical stack-up (colorization added for clarity)

SKIP TO PAGE 8 (THE NEXT PAGE IS FOR COMPRESSION LUG SYSTEMS)

1000T5 & 1200T5 Compression Lug Design

1. Install the node brackets as shown in Figure 5 and Figure 6. Pay close attention to the component stack-up in the blown-up images.
 - a. Exact placement shown in Figure 5 and Figure 6 is necessary to achieve the required creepage and clearance distances mandated by UL 857 & IEC 61439.
 - b. Each component (temperature node, node bracket, and mechanical lug) will be labeled to identify the correct location for installation (L1, L2, L3, N). Use these labels to ensure each component is installed on the correct phase.
 - c. Note: The node bracket will want to rotate when tightening down the bolts. Be sure to hold the node bracket in place so it is perpendicular to lug (as shown in Figure 5 and Figure 6).

For the compression lugs on the **opposite side** of the ground lug (colored green) install the node brackets (colored in blue) as shown below. The brackets **must** be installed on the bolts shown in the image below otherwise an **arc flash** could occur.

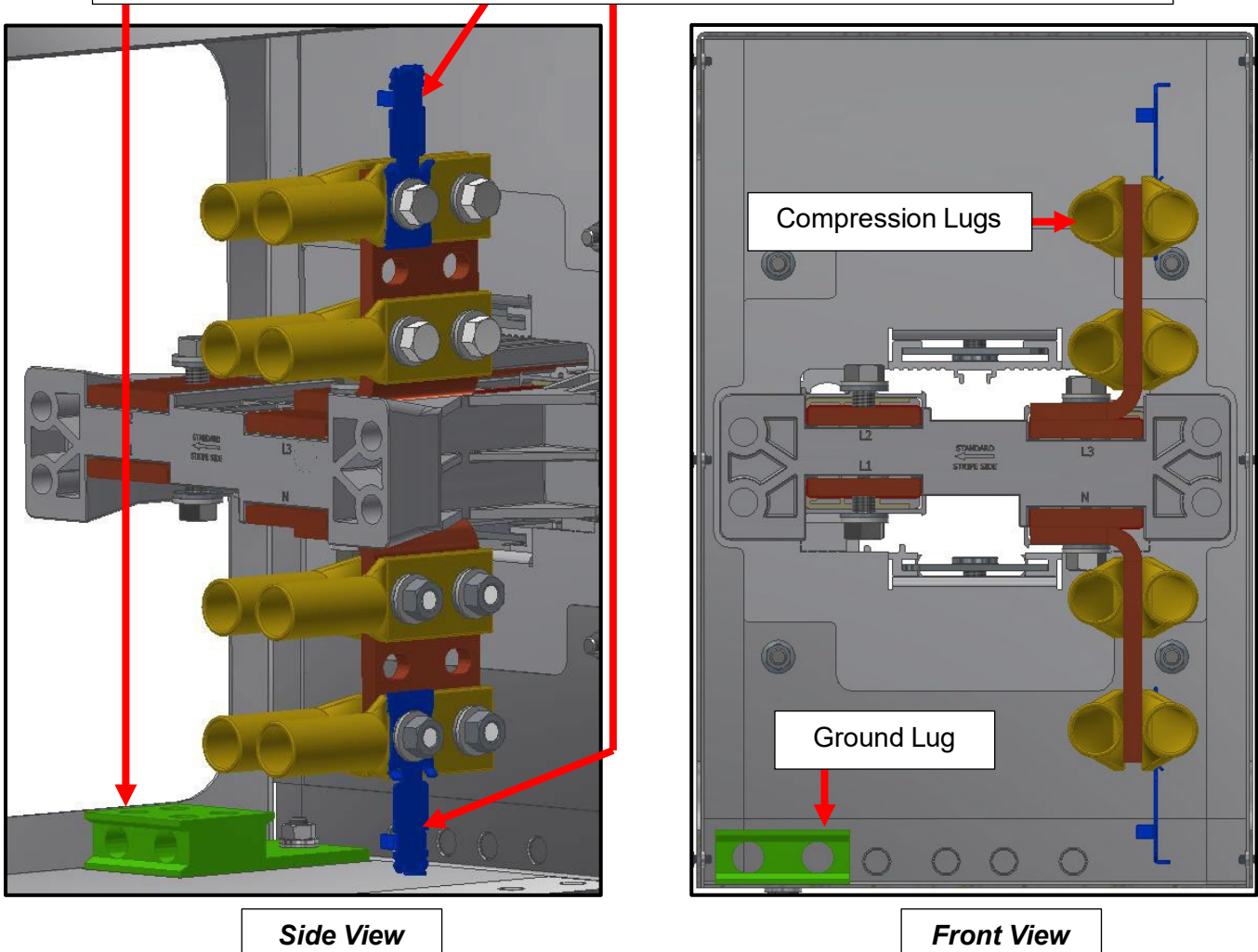
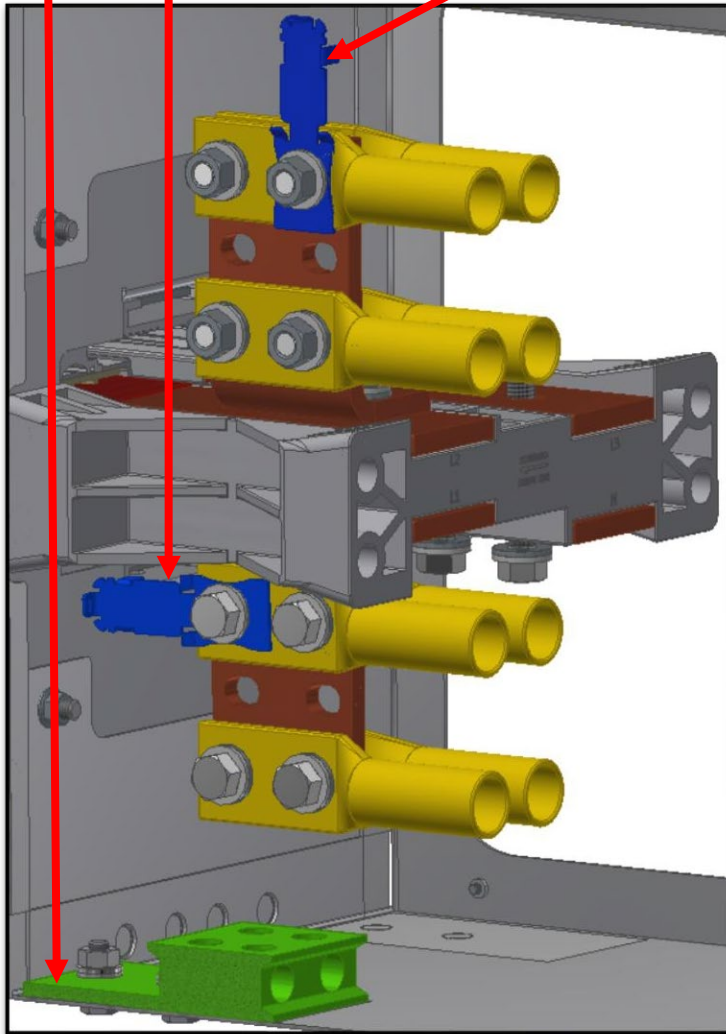
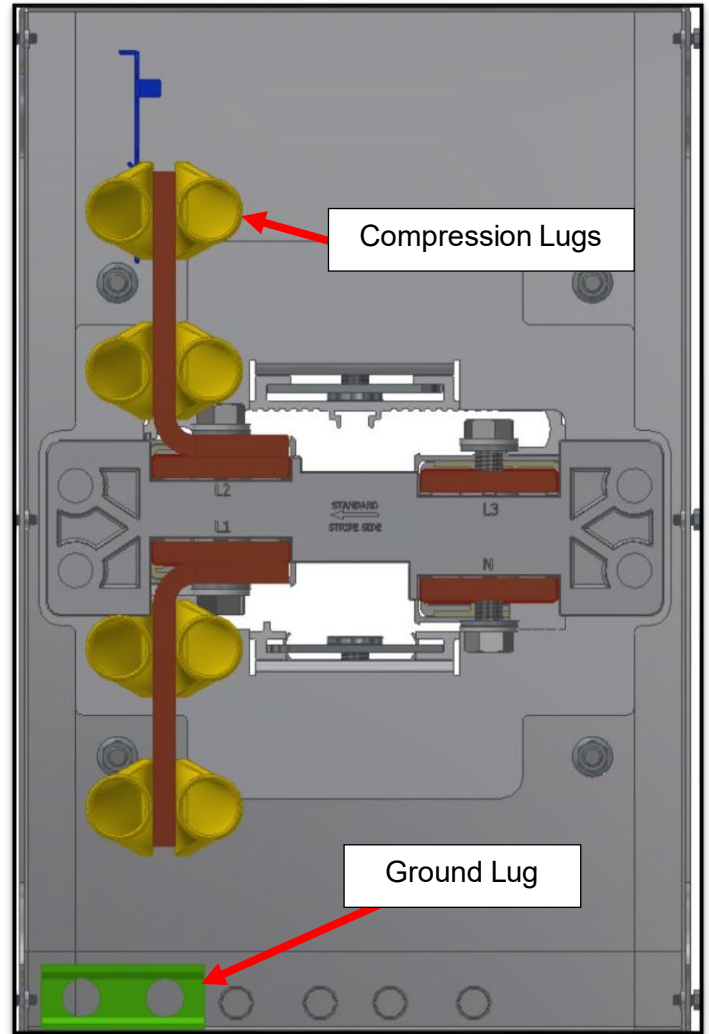


Figure 5 – Shows bracket installation locations (colorization added for clarity)

For the compression lugs on the **same side** of the ground lug (colored green) install the node brackets (colored in blue) as shown below. The brackets **must** be installed on the bolts shown in the image below otherwise an **arc flash** could occur.



Side View



Front View

Figure 6 – Shows bracket installation locations (colorization added for clarity)

For Both Mechanical & Compression Lug Designs

Wired Temperature Node Installation:

1. Press the temperature sensor onto the bracket, ensuring that the node identifier, as seen in the image below, matches the lug it is being landed on. The embedded magnets will hold the sensor onto the bracket.
2. Slide the sensor until it is as close as possible to the lug. If the temperature sensor is vertically mounted, a zip tie should be utilized to ensure the node doesn't slide due to vibration.

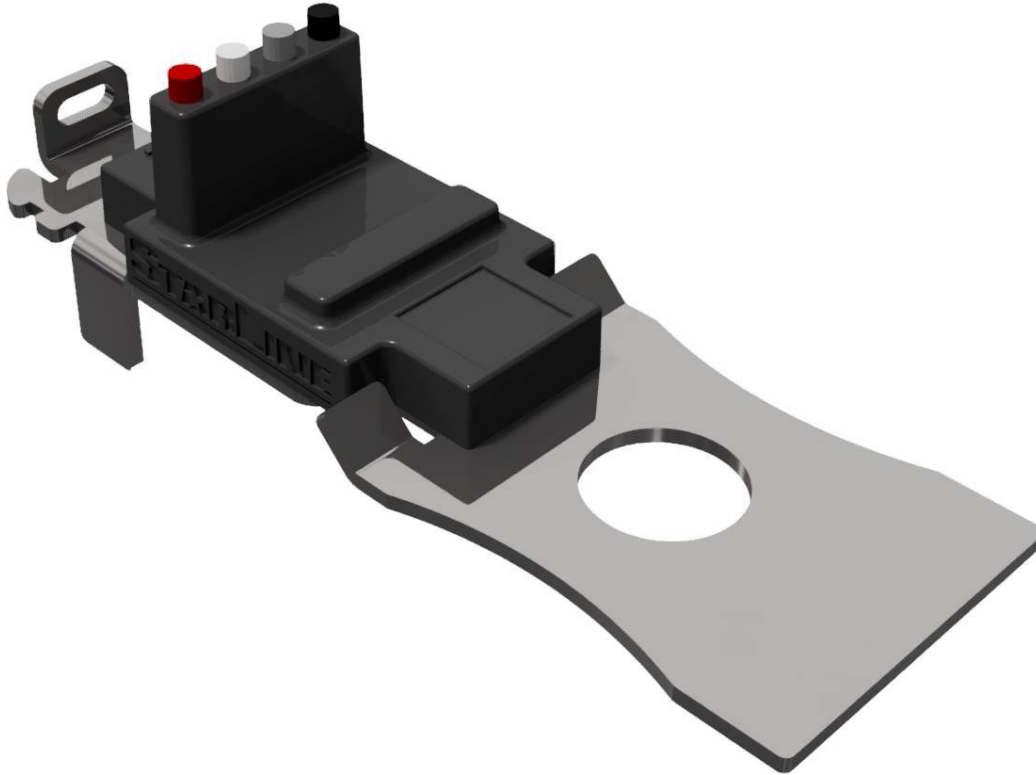


Figure 7 – Installing the wired node onto the bracket

Contact and support

Any questions or concerns about your CPM should be directed to Starline.

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