

STAR Gateway Enclosure

Installation Guide



READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

IMPORTANT SAFETY INSTRUCTIONS



All service must be performed by qualified service personnel.



When using electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

CAUTION — All service must be performed by qualified service personnel.

CAUTION — Read and follow all safety instructions.

CAUTION — Remove internal assembly prior to drilling and/or punching additional or larger holes for conduits, and remove excess metal shavings and contaminants prior to powering the panel.

WARNING — When using electrical equipment, follow basic safety precautions, including the following:

Do not use outdoors.

Do not mount near gas or electric heaters.

Do not mount equipment in locations and at heights where it cannot be accessed or tampered with by unauthorized personnel.

Do not use accessory equipment not recommended by the manufacturer. To do so may cause unsafe conditions.

Only use for intended purpose.

The severity of the hazards associated with this product are identified in accordance with ANSI Z535.4.



Remove internal assembly prior to drilling and/or punching additional or larger holes for conduits, and remove excess metal shaving and contaminants prior to powering the panel.

Acuity Brands assumes no responsibility for claims arising out of improper use or careless installation or handling of this product.

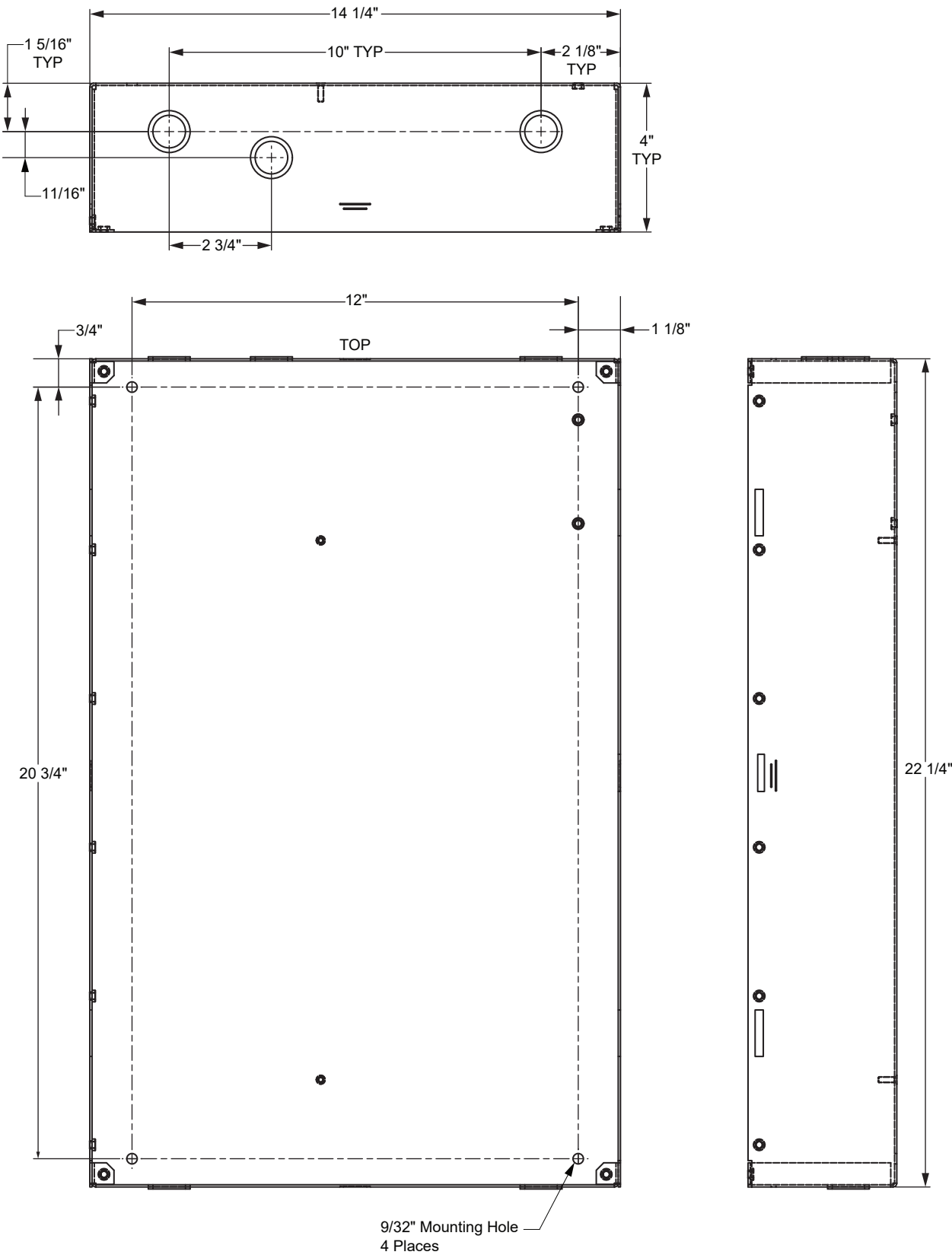
Failure to follow any of these instructions could void product warranty.

For a complete list of product Terms and Conditions, please visit www.acuitybrands.com.

Always read complete installation instructions prior to installation!

SAVE THESE INSTRUCTIONS

SURFACE MOUNT ENCLOSURE—MOUNTING AND KNOCKOUT DIMENSIONS



BOX DIMENSIONS AND INSTALLATION APPLICATION NOTES

The STAR Gateway enclosure was designed with knockouts to provide installer the freedom to add additional conduit feeds to better meet specific site conditions without locking them into confined positions or preset trade size fittings.

The dimensions provided are for reference only. Verify all clearances with the actual panel and its components in place prior to performing any added punch-out work.

COVER REMOVAL AND INSTALLATION

To remove the panel cover:

1. Remove the four Phillips screws at each corner of the cover.
2. Lift the cover from the right edge. The engagement clips on the left edge will release.

To install the cover:

1. Hook the clips onto the left edge.
2. Lower cover then replace the four Phillips screws at each corner of the cover.

WIRING INSTRUCTIONS

WARNING — DE-ENERGIZE THE PANEL BEFORE MAKING ANY WIRING CONNECTIONS.

CAUTION — DO NOT DISCARD THESE INSTALLATION INSTRUCTIONS. KEEP FOR FUTURE REFERENCE AND OPERATION INFORMATION.

NOTE

Ensure that high voltage and low voltage wiring enters the enclosure separately.

High-voltage wires should enter the upper right section of the enclosure, inside the high-voltage compartment.

Low-voltage wires should enter the low voltage wiring areas of the enclosure.

Failure to separate high voltage from low voltage wiring may cause electrical interference.

CONNECT HIGH VOLTAGE

- Ensure panel is de-energized before wiring.
- Use only voltage listed in the panel specs.
- Only qualified personnel can perform installation service.

WIRE THE POWER SUPPLY

- STAR Gateway is factory configured with a 120-277V, 100W switching power supply (MVOLT).
- Connect wires to the power supply inside of the STAR Gateway Enclosure. Ensure that a dedicated circuit with circuit protection is for the power supply. The earth ground must be connected to the lug labeled "FOR EQUIPMENT GROUNDING ONLY" located in the high voltage compartment.
- All low voltage wiring should be done with power removed from the system to protect from potential shorts during the wiring process.
- All low voltage wiring must run in separate conduit from the line voltage wiring. DO NOT MIX CLASS 1 AND CLASS 2 CIRCUITS IN THE SAME CONDUIT.
- Test all low voltage wiring for shorts to AC ground before connecting to the controller.

APPLY POWER

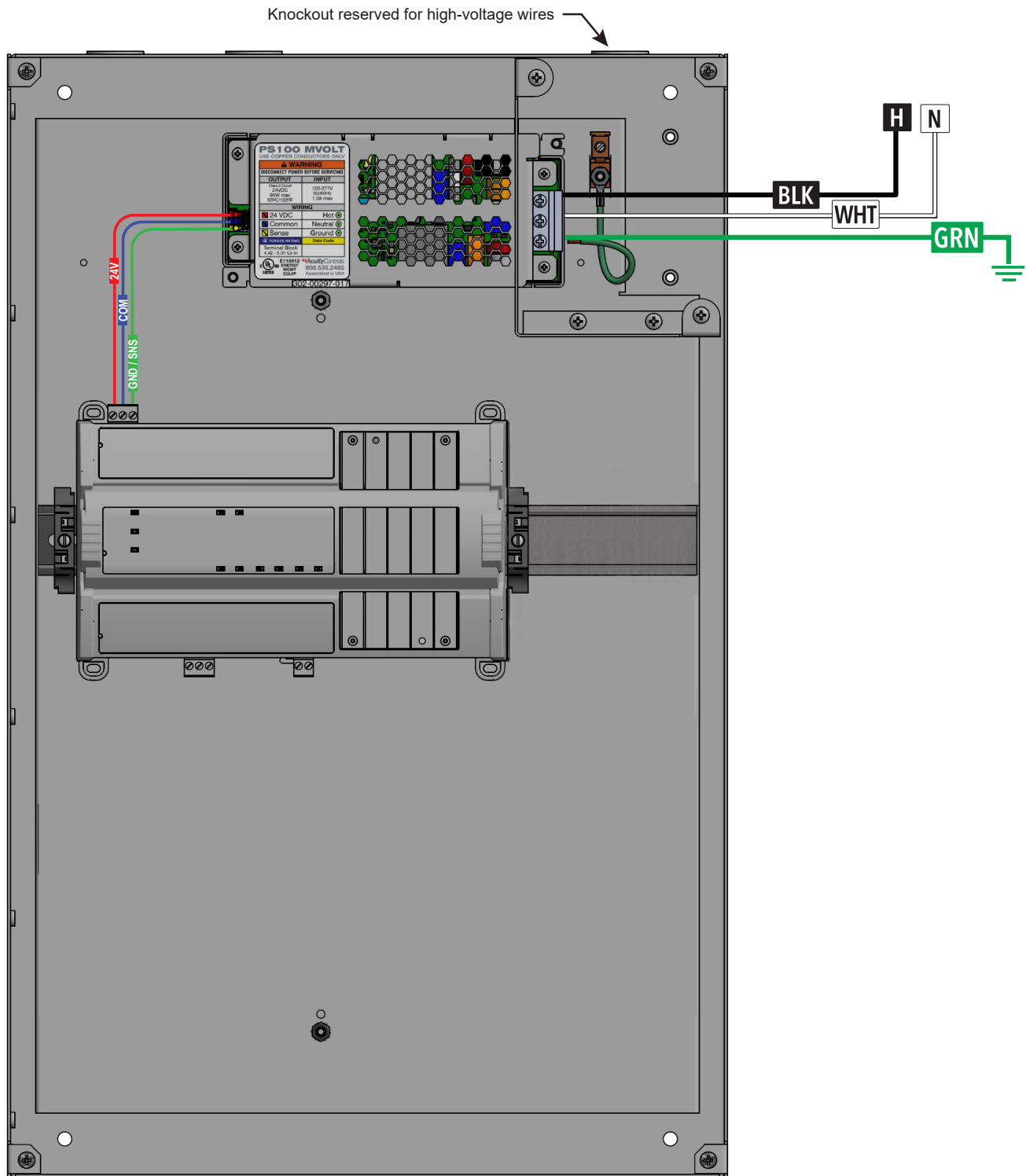
- Remove any clippings or metal fragments from the enclosure after wiring is complete.
- Ensure there are no loose or exposed wires that could short to other wires or components.
- Power on the unit from the circuit breaker.

STAR Gateway Enclosure



STAR Gateway WIRING DIAGRAM

The low-voltage connections shown below are pre-wired from the factory and are for reference only.

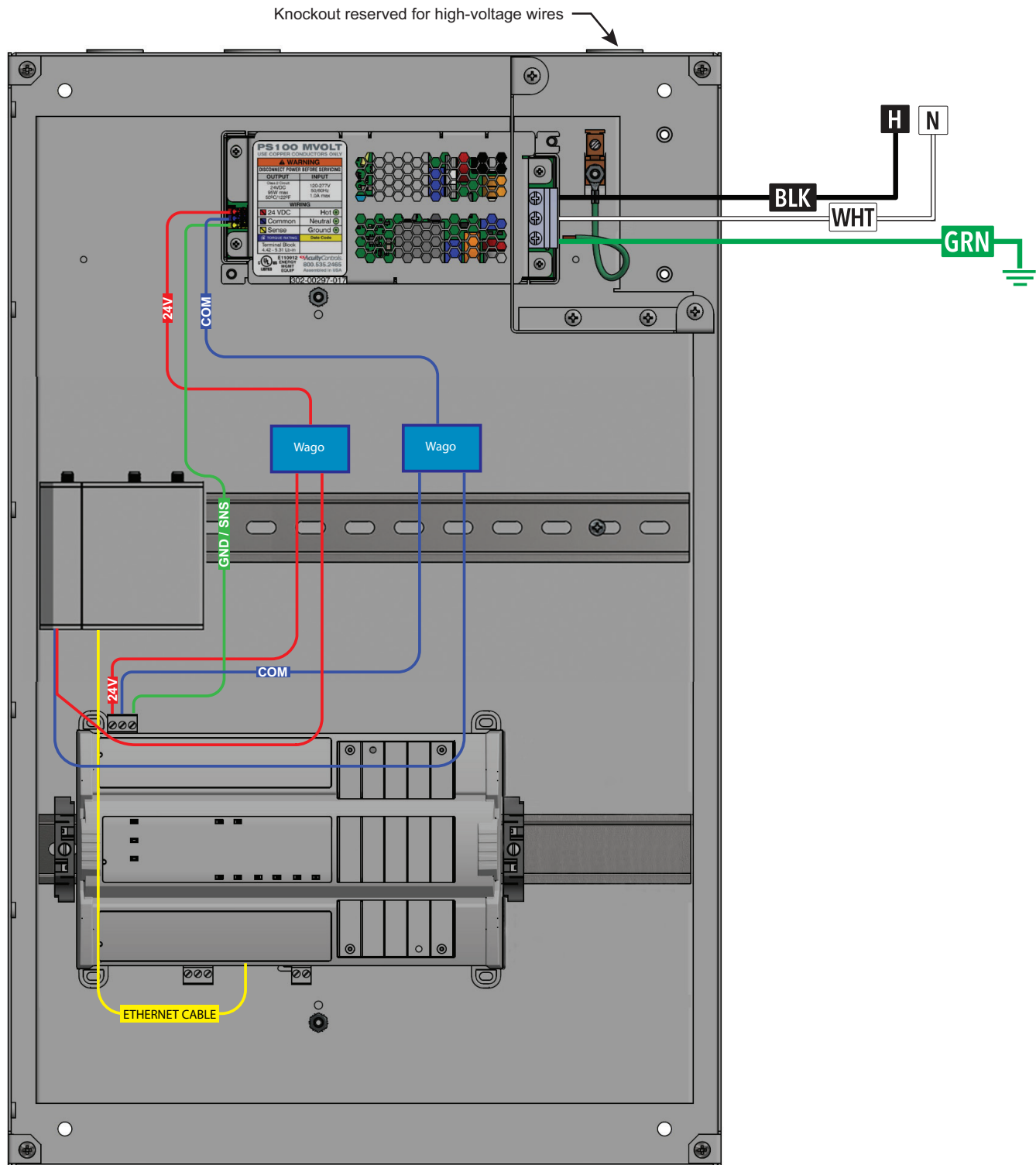


STAR Gateway Enclosure



STAR GATEWAY WITH CLAIRITY LINK ROUTER WIRING DIAGRAM

The low-voltage connections shown below are pre-wired from the factory and are for reference only.

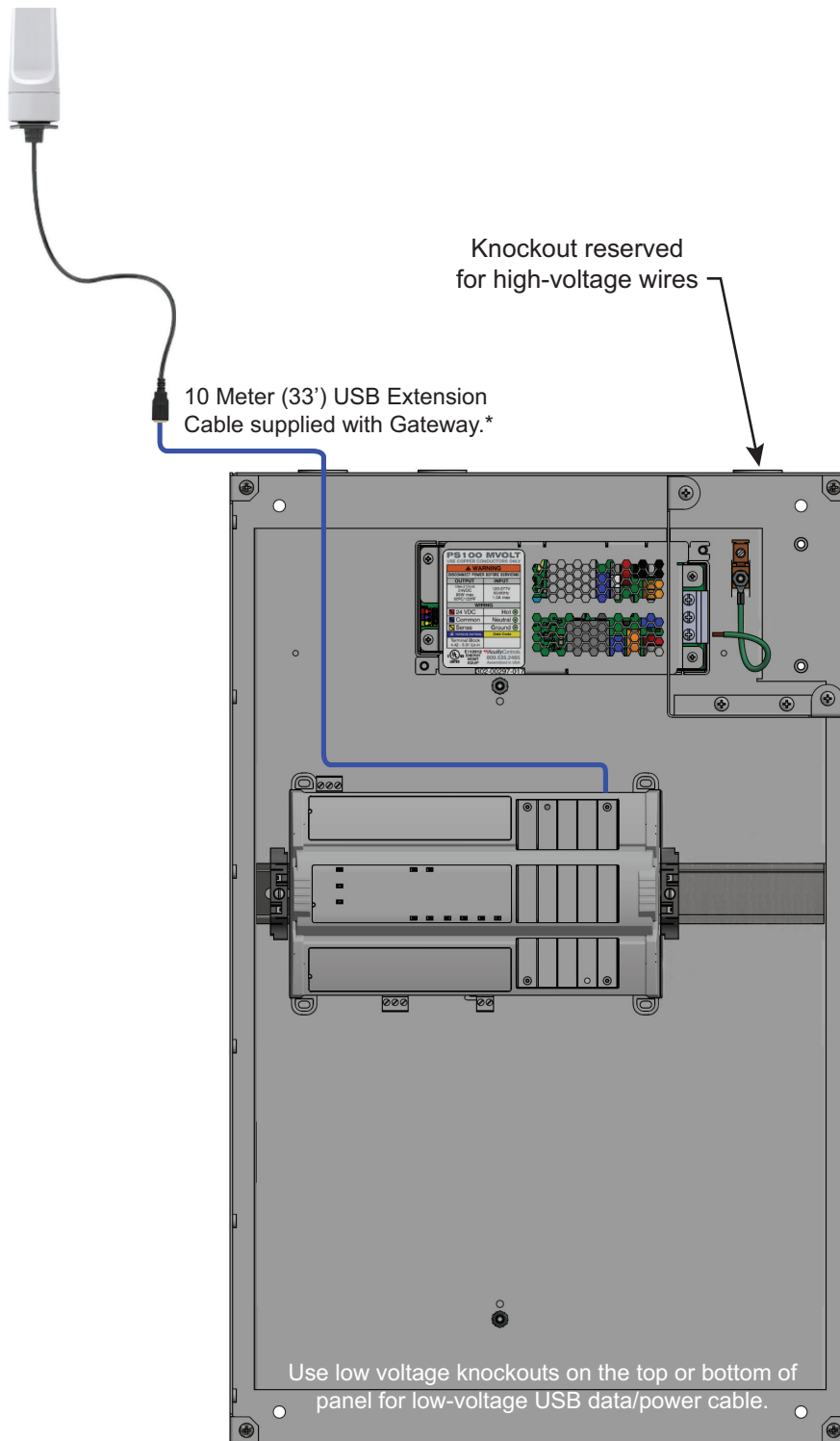


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BLUETOOTH® ADAPTER INSTALLATION

Below shows how the Bluetooth Adapter is connected to the STAR Gateway Enclosure.



*An additional 10m (Part#: BLE DONGLE ECY USB EXT 10M M1) or 20m (Part#: BLE DONGLE ECY USB EXT 20M M1) extension cable is available for purchase, for a combined maximum of 30m total.

BLUETOOTH® ADAPTER MOUNTING INSTRUCTIONS

The low-voltage connections shown below are pre-wired from the factory and are for reference only.

TYPICAL MOUNTING APPLICATIONS

The Bluetooth Adapter is typically mounted from a suspended ceiling, a wall bracket, or on the STAR Gateway enclosure. In a multi-story building it is preferred to install the Adapter on one of the middle floors.

The Bluetooth Adapter must be mounted 16 inches (41 cm) or more away from any network communication devices, including the WiFi adapter (if supplied) for the STAR Gateway. Connect it directly to the STAR Gateway using the provided USB port.

Note: The 10-meter (32.8-feet) USB cable provided with the STAR Gateway must not be extended or modified. An additional 10m (Part#: BLE DONGLE ECY USB EXT 10M M1) or 20m (Part#: BLE DONGLE ECY USB EXT 20M M1) extension cable is available for purchase, for a combined maximum of 30m total.

PLAN THE LOCATION

Before mounting the Bluetooth Adapter(s) ensure that distances and obstacles do not block the transmission signal.

Obstructions such as walls, doors, and furniture; metallic objects including, but not limited to, wall reinforcements and machinery cause interference and reduce the range of wireless signals.

Supply rooms and elevator shafts are complete transmission screens.

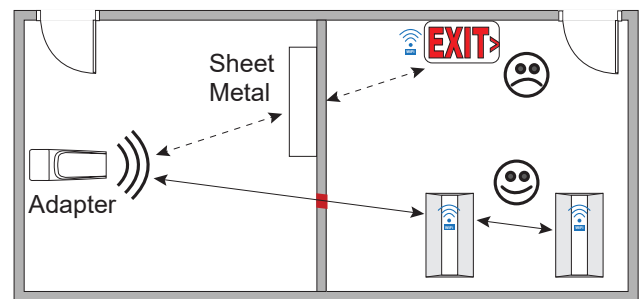
Strategically place the Bluetooth Adapter in areas that provide optimal coverage.

A common source of wireless obstruction in the field is when the wireless adapter is placed in a high angle of incidence.

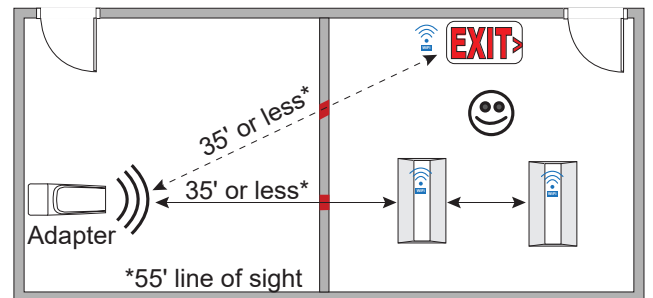
A steep angle of incidence increases the number of potential obstacles that interfere with or reduce the wireless signal.

For optimal signal strength, position the Bluetooth Adapter so that the signal travels straight to the receiver. When there is an obstacle, position the adapter so that the signal traverses the obstacle perpendicularly.

Adapter **must** be mounted as close as possible (and no more than 30 feet) to **two** STAR-enabled emergency devices.



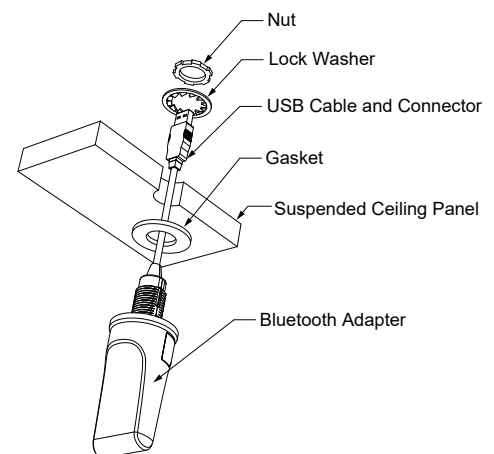
Wireless Signal Transmission Screens



High Angle of Incidence

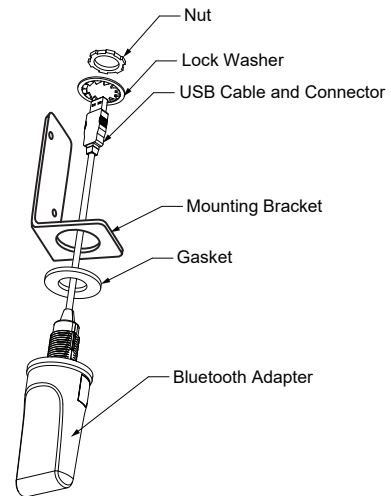
SUSPENDED CEILING

1. Use a 0.875" (22mm) hole saw to cut a mounting hole in the ceiling panel. See PLAN THE LOCATION.
2. Disassemble the Bluetooth Adapter by removing the Nut from the Adapter, ensure the Gasket remains with on the Adapter.
3. Thread the USB Cable through the hole in the ceiling panel.
4. Snug the Adapter into the hole.
5. Above the ceiling panel, thread the USB Cable through the Lock Washer and the Nut.
6. Hand tighten the Nut to the Adapter to secure it to the ceiling panel.
7. Connect the USB cable to the USB port on the STAR Gateway.



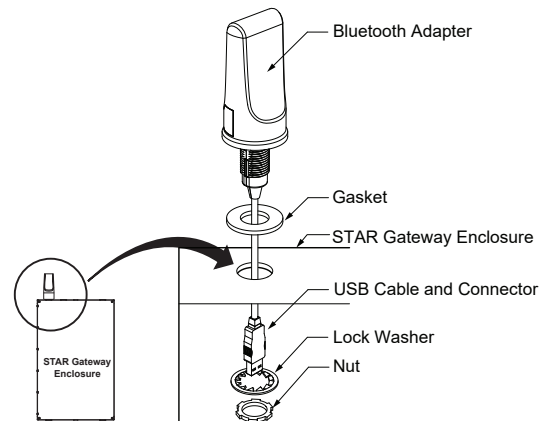
WALL MOUNT

1. Attach the Wall Bracket to a wall in an optimal location. See “PLAN THE LOCATION” on page 7.
2. Disassemble the Bluetooth Adapter by removing the Nut from the Adapter, ensure the Gasket remains with on the Adapter.
3. Thread the USB Cable through the hole in the Wall Bracket.
4. Insert the Adapter into the hole from the bottom.
5. From the top of the Wall Bracket, thread the USB Cable through the Lock Washer and the Nut.
6. Hand tighten the Nut to the Adapter to secure it to the Wall Bracket.
7. Connect the USB cable to the USB port on the STAR Gateway.



STAR GATEWAY ENCLOSURE

1. Remove the top left knockout from the STAR Gateway Enclosure. Opposite of the high-voltage knockout. This is the ideal location to prevent wireless signal interference.
2. Remove the Nut from the Adapter. Ensure the Gasket remains with the Adapter.
3. Insert the USB Cable through the punch-out hole in the enclosure and thread it through the Lock Washer and the Nut.
4. Insert the Adapter into the hole and hand tighten the Nut to the Adapter for a snug fit.



MAINTENANCE AND DISPOSAL

WARNING — Turn off power to STAR Gateway before any service.

REGULAR MAINTENANCE

- The STAR Gateway Enclosure requires minimal maintenance.
- Clean the outside with a soft dry cloth.
- Re-tighten terminal-block connector screws annually to ensure the wires remain securely attached.

DISPOSAL

The Waste Electrical and Electronic Equipment (WEEE) Directive sets out regulations for recycling and disposal of products. The WEEE2002/96/EG Directive applies to standalone products, for example, products that can function entirely on their own and are not a part of another system or piece of equipment.

For this reason, Acuity products are exempt from the WEEE Directive. Nonetheless, Acuity products are marked with the WEEE symbol indicating that our devices are not to be thrown away in municipal waste.

Products must be disposed of at the end of their useful life according to local regulations and the WEEE Directive.

NORTH AMERICA EMISSIONS COMPLIANCE

United States

CAUTION — Changes or modifications not expressly approved by Acuity could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential and commercial installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Canada

This Class (B) digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la Classe (B) respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

ADDITIONAL INFORMATION

STAR Gateway Enclosure (100-240VAC) is designed for type 1 action and type 1.b action. The EMC immunity test passed using 230 VAC and 0.5A. The Ball pressure Test temperature was 167°F (75°C) for the Enclosure and 257°F (125°C) for the Connectors. The SELV must not exceed 42 VDC.

The maximum accessible voltage is 19 VDC. All connecting cables must be permanently installed with X-type anchors. All cables must have insulation rated for 176°F (80°C) or higher. These products are classified as integrated electronic operation control devices. SELV is guaranteed by reinforced insulation.

WARNING — For the Power Supply Module (100-240VAC): Risk of electric shock. Do not open. This product has no user-serviceable parts inside. When power has been disconnected, dangerous residual internal voltages may still be present. Return this unit to Acuity for maintenance or repair.