



www.Concealite.com

202 Elk Street, PO Box 160
Elkton, SD 57026
Customer Service: (605) 531-5588

Electroluminescent Lighting, HW Series

Invisi-X Exit Sign

**Gypsum Board / Horizontal Wall Mount Remotely Powered
Battery Back up / AC Only Systems**

INSTALLATION INSTRUCTIONS

Ordering Information

Exit Sign:

IX - Invisi X Exit Sign, 6 Inch High Letters And Arrows

Mounting Style:

HW - Horizontal Wall Mount Gypsum Board

Illuminated Letters / Arrows:

R - Red

G - Green

Power Options:

AC - AC Only Universal 120/277 Volt 60 Hz input

EM - Emergency Battery Backup 4 Hour Run Time Self-Diagnostic Universal 120/277 Volt 60 Hz input

Exit Sign Faces:

SF - Single Face

DF - Double Face Available With Mounting Types

(CP,EWR,EWL,WGB,WGT,WGR,WGL,SMCP,SMHW,SMEWR,SMEWL,SC)

Arrow Configurations:

NA - No Arrows

LA - Left Arrow

RA - Right Arrow

BA - Both Arrows

SA - Single Arrow (Double Face)

IA - Inner Arrows, (Arrows Next To Wall Mounting) Available With Mounting Types (EWR,EWL,GWR,GWL,SMEWR,SMEWL)

OA - Outer Arrows (Arrows Away From Wall Mounting) Available With Mounting Types

(EWR,EWL,GWR,GWL,SMEWR,SMEWL)

Options:

NYC - New York City 8 Inch Red Letters

CF - Custom Finish Per Fixture Note U.S. RAL# Required

(Specify Color When Ordering) Available With Mounting Types

(SMCP,SMHW,SMEWR,SMEWL,SC)

PLCS - Custom Post Length and Ceiling Slope Degree Angle, Per Sign Dimension Specified In shop drawing PDF.

REM - Remote Power Enclosure is available with (CP,EWL,EWR) Mounting Types and Both Emergency Battery Back Up and AC Only power configurations. The REM enclosure can be located up to 50 feet in distance. (Remote Power Unit is standard for all other Mounting types)

NFPA 72 Standards
Tested to UL Standards





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Important Safeguards **Read and Follow All Safety Instructions**

- ✓ Damp label rated for outdoor applications.
- ✓ Do not mount units where they will be exposed to direct sunlight, radiators, gas or electric heaters. Prolonged exposure to temperatures exceeding 95 degrees Fahrenheit may reduce battery life and void warranty.
- ✓ Use caution when servicing batteries. Battery acid causes burns to skin and eyes. If acid is spilled on skin or in eyes, flush with fresh water and contact a physician immediately.
- ✓ Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- ✓ Do not store or place flammable materials near lamps.
- ✓ The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- ✓ Do not use this equipment for any purpose other than for its intended use.
- ✓ Before wiring to AC service, turn off AC power at fuse or circuit breaker supplying unit.
- ✓ Battery in this unit (if self-contained battery backup series) may not be fully charged. After the AC service is supplied to unit, let the battery charge for at least 48 hours before performing any tests.
- ✓ Qualified service personnel should perform servicing of this equipment.

Failure to follow published installation instructions or any modifications to the product may damage the unit and will void the warranty.



WARNING! To avoid fire, shock/electrocution, or injury ... **TURN OFF POWER** at circuit breaker or fuse and test to ensure that power is off before wiring. Remove and discard the packaging materials.

HW Series Remotely Powered Battery Backup and AC Only Systems

Step #1 Determine location

This unit is designed for recessed flush mounting in 5/8" deep gypsum board wall mounting for indoor building construction. Determine exit sign egress viewing location as directed by governing Codes, including National and local Code requirements.

Step #2 Prepare location

1. Confirm that the location is clear of obstructions, including electrical and mechanical building systems. The clear area required for recessed flush mounting is 4.25 inches high by 2.25 inches wide by 3.625 inches deep within the wall area mounting location. The recessed back box portion of the fixture should only be installed into a completely clear, unobstructed, recessed area that allows the exposed horizontal exit signage mounting face to be surface mounted to the finished wall material.
2. Provide National Electrical Code conduit raceway Connections to the recessed back box, utilizing the provided 13/16" knockouts located on the power input side areas of the recessed back box.
3. Temporarily install the flush mounting system (FMS) panel against the wall materials. centering the FMS in the recessed back box opening.
4. Mark the four (4) FMS mounting hole locations for the four (4) flush toggle bolts (provided) to secure the FMS panel to the wall materials.
5. Remove the FMS panel from the wall surface.
6. Drill four (4) 5/8" diameter holes for the toggle bolts.
7. Install the four (4) toggle bolts into the FMS panel.
8. Apply Construction adhesive (not included) onto the back side of the FMS panel.
9. Insert the FMS assembly into the drilled wall openings.
10. Note: Confirm that the FMS panel is horizontally level now to ensure that the final exit sign position will be level when installed.
11. Fasten the toggle bolts to secure the FMS panel to the wall surface.

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Step #3: Masking & Painting - Finishing of Flush Exit Sign Mounting Panel

NOTE: Professional attention is recommended to ensure the exit sign flush mounting system is completely concealed and invisible in the ceiling area finished material surface.

1. Provide concealing tape and masking coverage around the exposed perimeter edging of the flush mounting panel and adjacent wall surface. Maintain minimal masking application coverage along the panel perimeter edging to maintain level surface to be consistent with the exit sign panel and adjacent surfaces.
2. Complete by sanding all areas necessary to provide a seamless, feathered, continuous, flush appearance to completely blend into surrounding finish.
3. The flush exit sign (FMS) metal panel and cover plate are provided with a factory primer-coated finish to accept paints and finishes.
4. Paint/finish the flush exit sign metal panel (FMS), and removable exit sign / access cover plate assembly, as desired, to match surrounding surface finishes /textures. Take care to not allow excessive paint/finish to remain and cure on the inside edges of the flush panel, nor the access cover plate, in order to maintain a flush, finished appearance. After each paint application has been applied, remove excess paint build-up that may occur along the inner edges of the flush panel (where cover plate is to be located) to maintain a continuous straight edge line around the cover plate access opening. Keeping excess paint cleaned away from the edges will allow the cover plate to fit flush with the flush mounting panel.
5. **PAINTING THE COVER PLATE:** Remove the flush access cover from the exit sign prior to applying paint and / or finish to the access cover. Separate the flush access cover from the exit sign by removing the two (2) #6-32 screws that fasten the cover to the FMS panel
6. Reassemble the access cover to the exit sign upon completing the painting / finish access cover applications.
7. **Covering Material:** If the flush FMS panel and cover plate of the exit sign is to be covered with a material such as wallpaper, cloth, laminate, etc., allow the mastic used in application to completely setup. Use a sharp-edged cutting tool, such as a single-edge razor blade or utility knife, to draw against all edges of the cover plate and FMS perimeter openings.

NOTE: Painting/finishing of the flush exit sign metal panel, and removable cover plate, must be completely dried and cured prior to completion of the next installation steps.

Step #4 Exit Sign Location Electrical Wiring

1. Route two (2) #14 AWG conductors in raceway from HW series exit sign FMS panel assembly recessed back box to the remote power supply enclosure location.
2. Complete the two (2) terminations between the exit sign quick connectors lead wires provided with to be located within the FMS recessed back box and the raceway conductors with only UL listed wire nuts.

Step #5 Remotely Located Power Supply Electrical Wiring

1. Provide a single, unswitched supply from either a 120VAC or 277VAC branch circuit used for normal lighting in the egress room area.
2. Emergency Self-Contained Battery Backup Input: Make the proper supply lead branch circuit connections with only UL-recognized wire nuts. If using 120VAC, connect the black and white leads to the building utility power. If using 277VAC, connect the red and white leads to the building utility power. Cap off unused wire. Connect the battery backup lead connectors to the power supply assembly battery input lead connectors and install battery pack on lower power input area of the recessed back box.
3. AC Only Power Input: Make the proper lead branch circuit connections with only UL recognized wire nuts. For the 120/277VAC lead, (H) connect to the building power black conductor. For the 120/277VAC common (N) lead, connect to the building power universal white conductor.
4. Grounding: Provide remote power supply enclosure back box ground conductor connections with only UL-recognized wire nuts between green conductor lead and branch circuit ground conductor(s) within the junction box.



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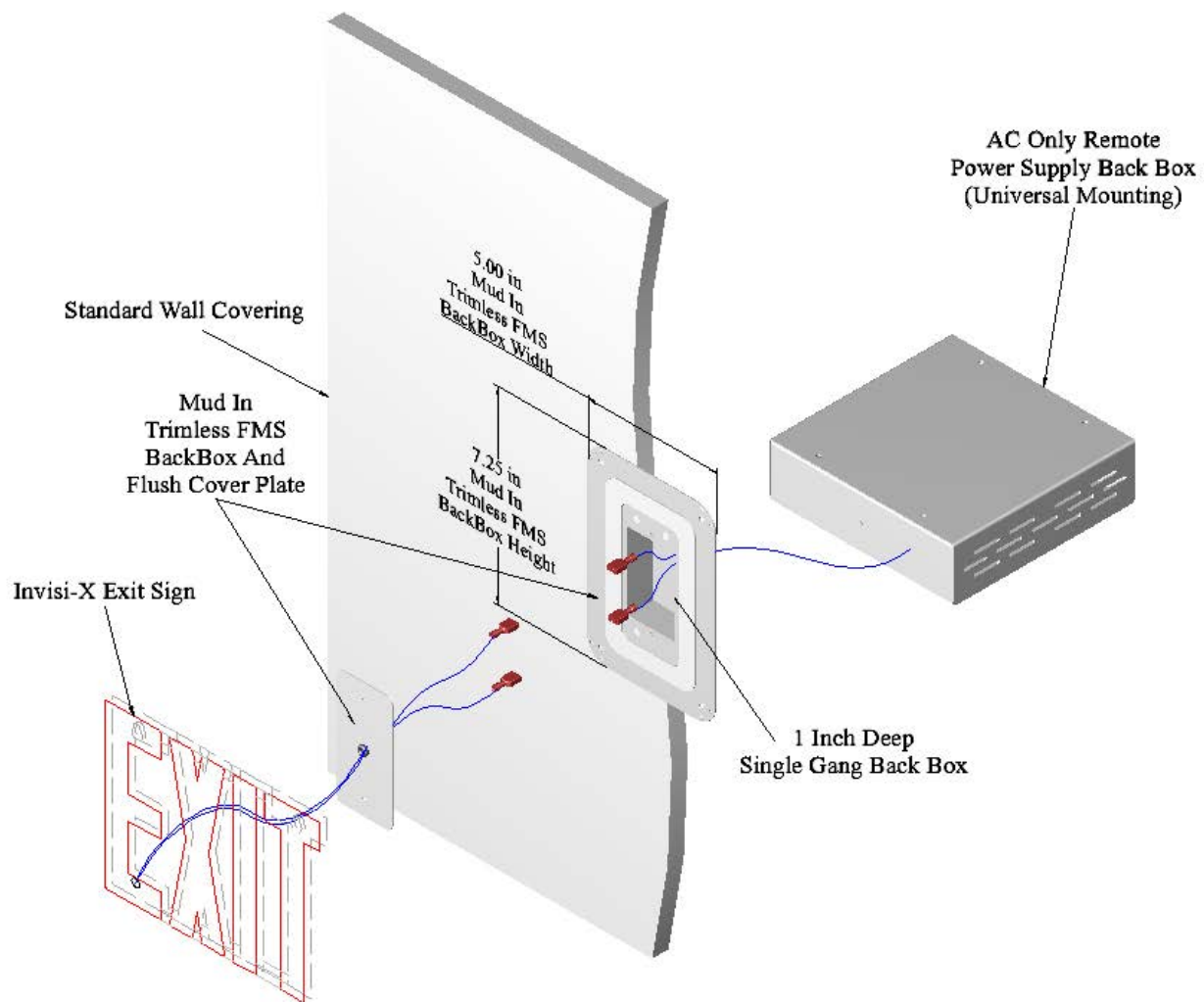
Step #6 Energizing the Illuminated Exit Sign

Notice: Do not energize the incoming branch circuit power to the exit sign fixture power supply assembly until the entire installation is complete.

- 1.) Temporarily suspend the HW series exit sign by selecting one (1) of the two (2) single mounting post. Slide the exit sign mounting slot onto the wall mounted extended mounting post.
- 2.) Connect the two (2) quick connectors between the interior flush mounted J-box and the exit sign leads.
- 3.) Secure the flush mounting plate with the two (2) #6-32 screws provided.
- 4.) Feed excess power cord into flush mounted J-box through the cover plate.
- 5.) Remove the HW series exit sign from the temporary position. Then, locate and align the two (2) mounting slots on the rear side of the HW series exit sign with the two (2) wall mounted extended mounting posts. Slide the exit sign downward until the two (2) mounting posts are positioned fully into the top portion of the exit sign rear mounting plate.

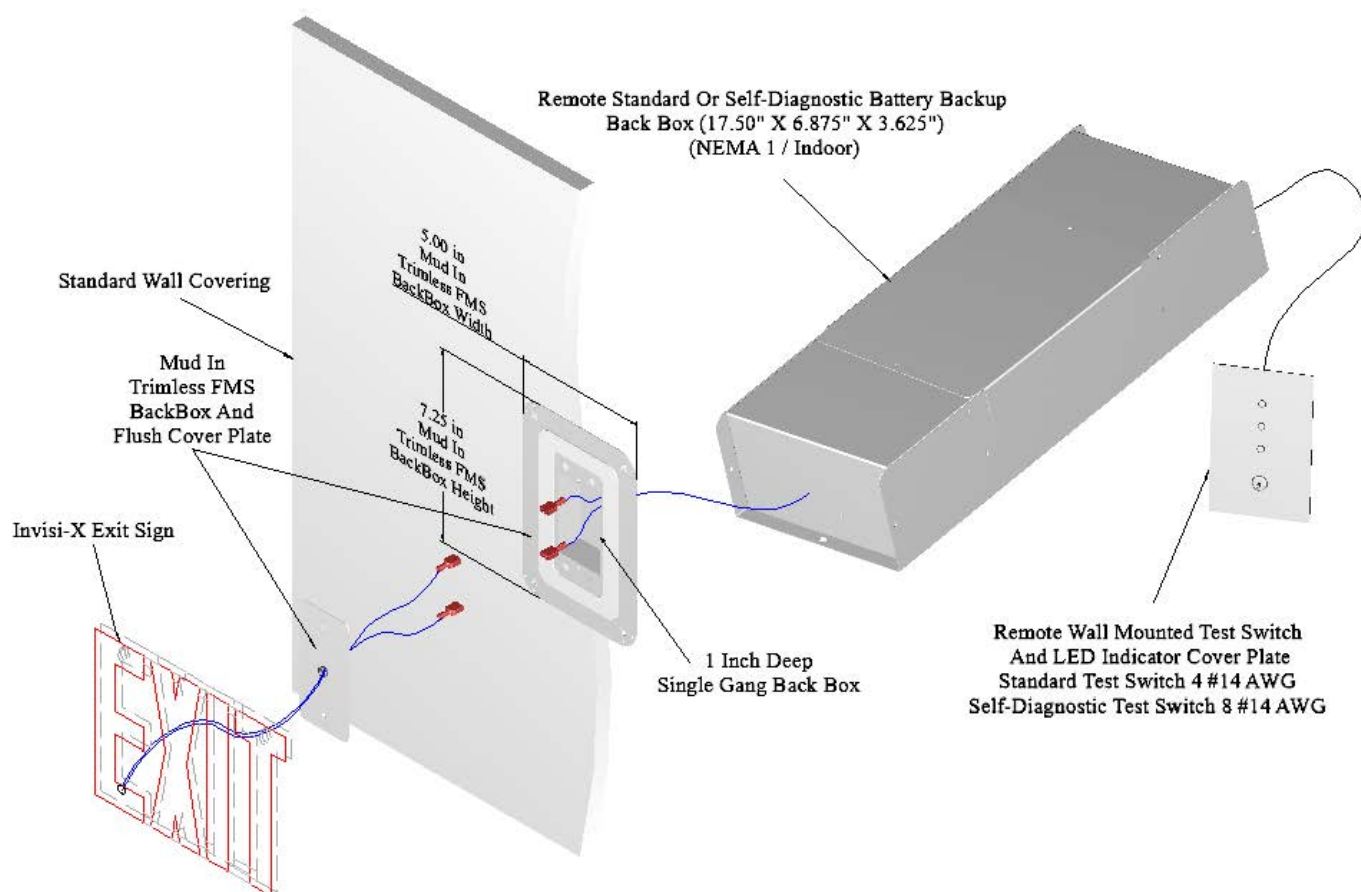
Gypsum Board / Horizontal Wall Mount Remotely Powered AC Only Systems

Note: Remote Power Back Box Can Be Located Up To 200 Feet Away

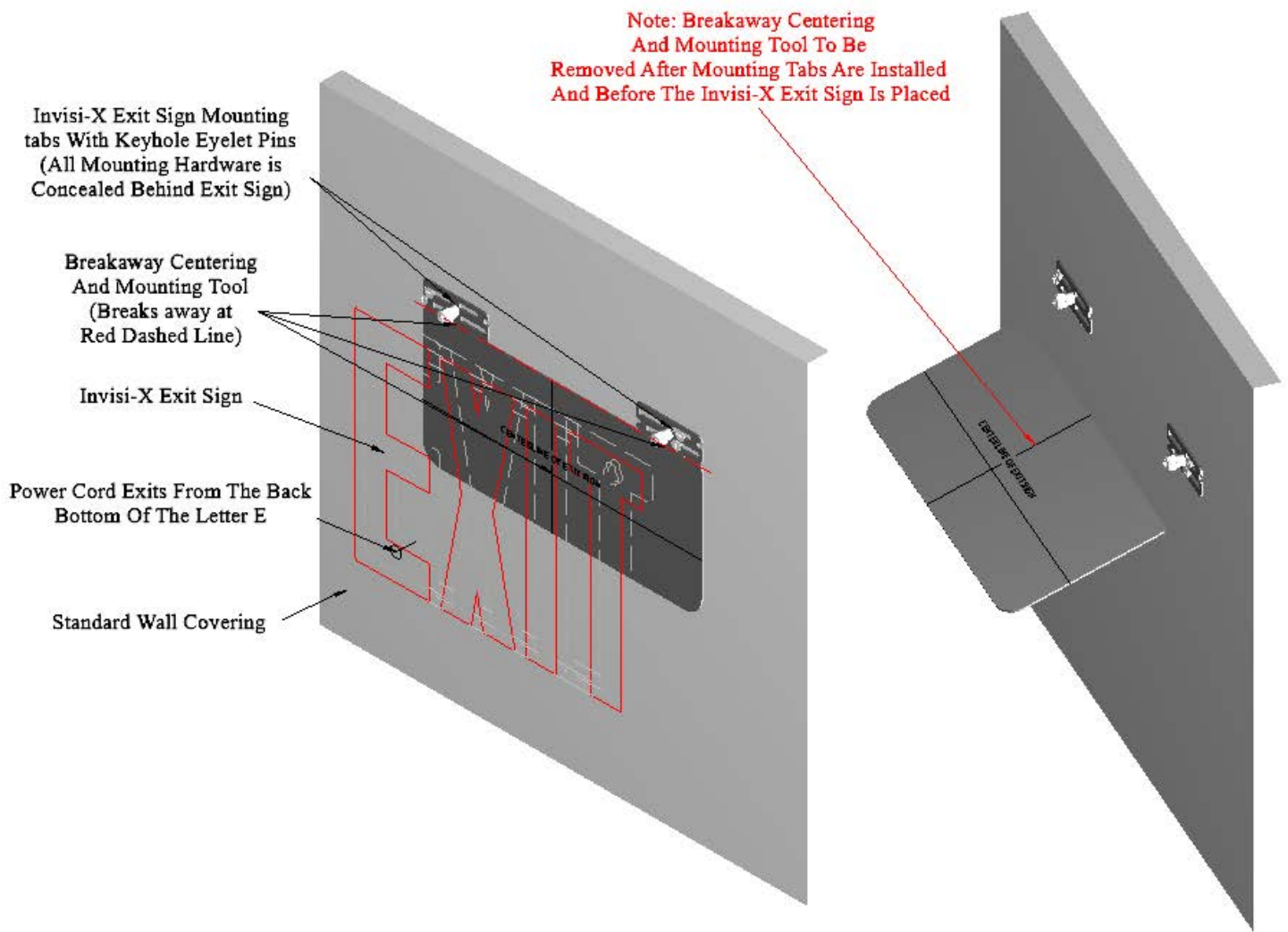


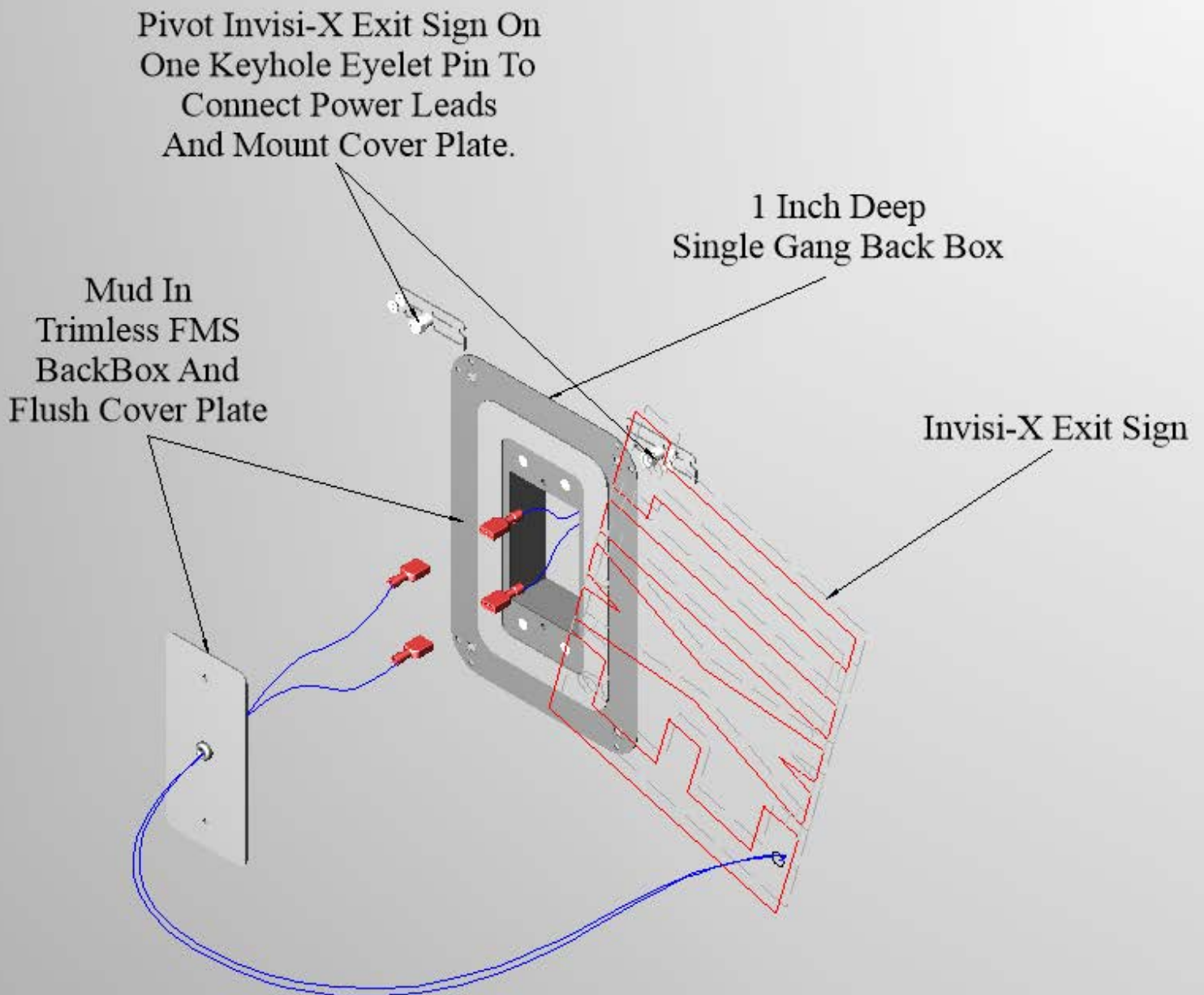
Gypsum Board / Horizontal Wall Mount Remotely Powered Battery Back up Systems

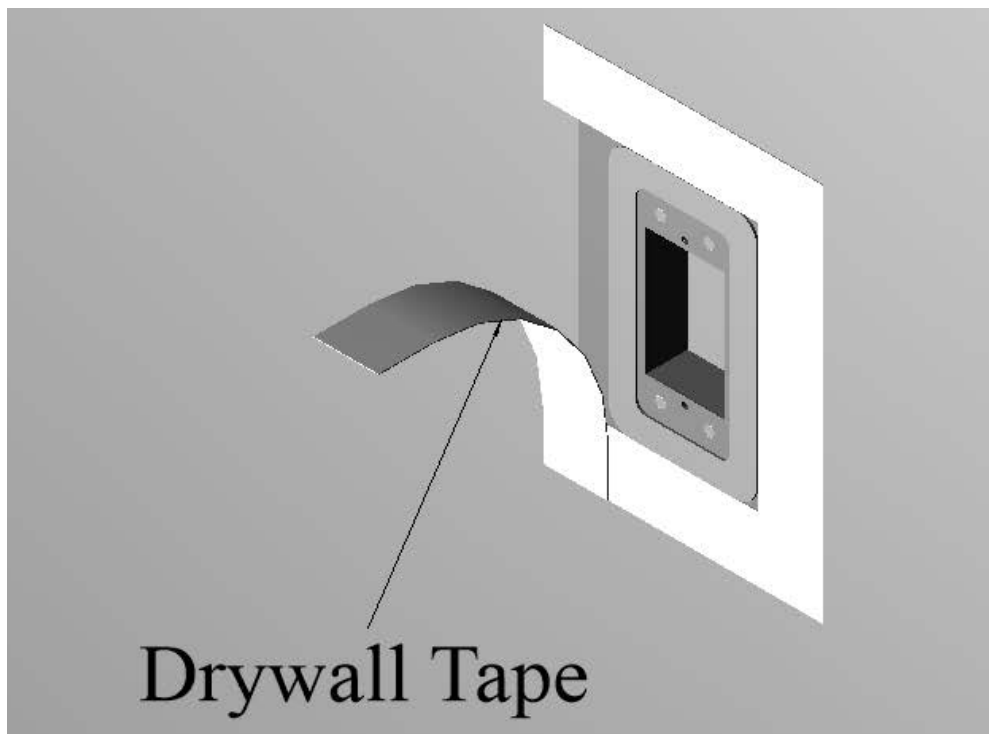
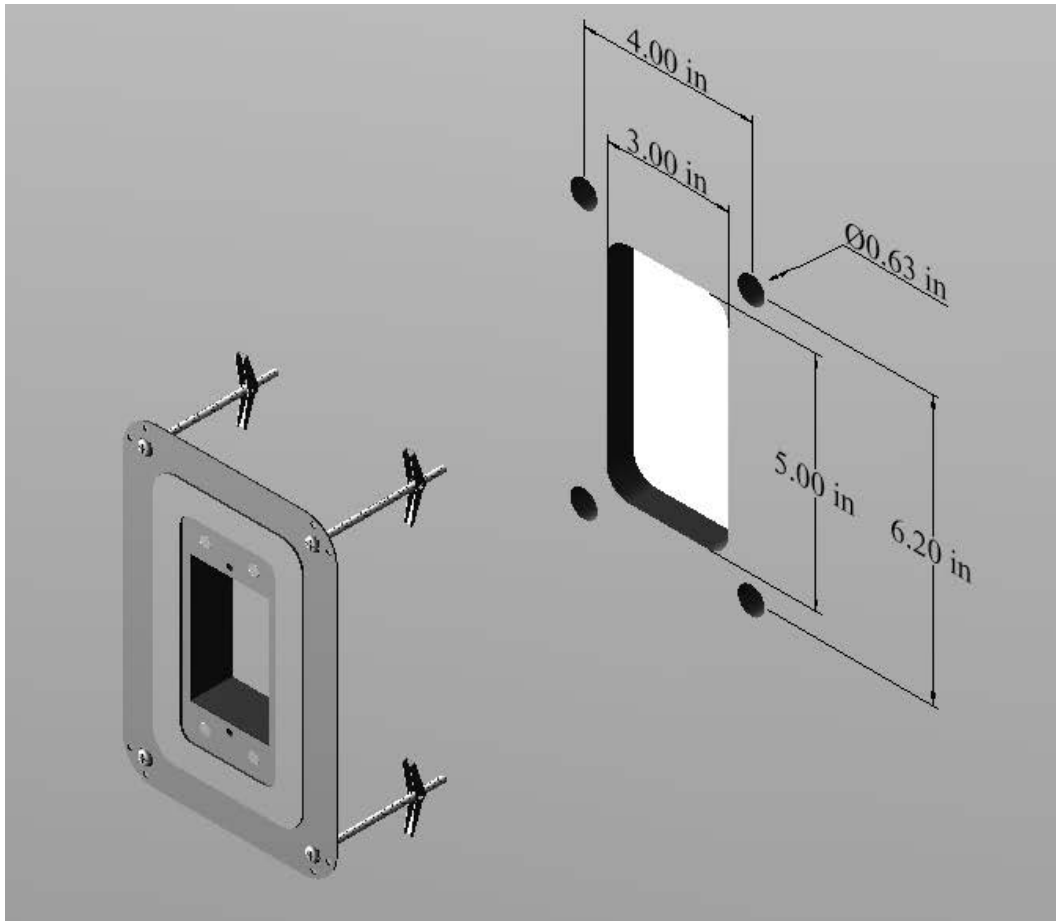
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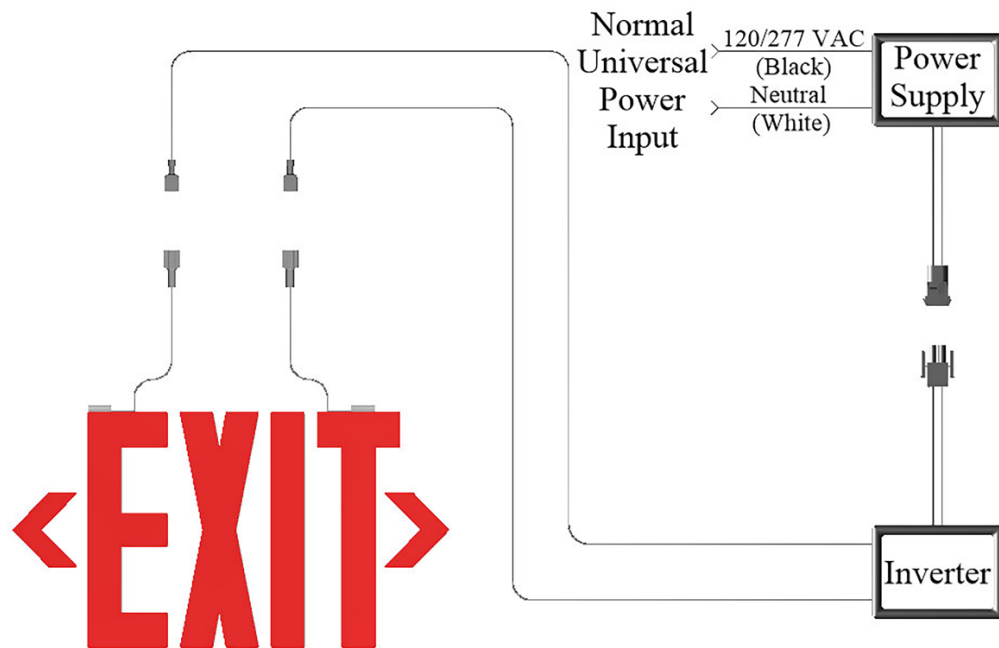


Gypsum Board / Horizontal Wall Mount Remotely Powered Invisi-X Exit Sign Mounting Tabs

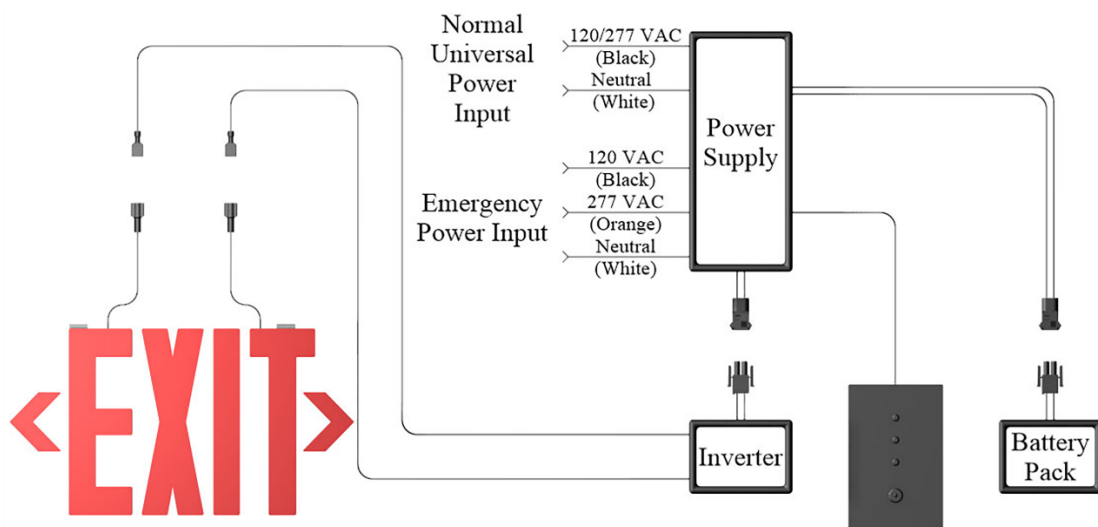








AC ONLY



REMOTE TEST SWITCH Standard & Self-Diagnostic (SD) Wiring Diagram

Remote Wall Mounted Test Switch
And LED Indicator Cover Plate