



GE VERNOVA

UR Family

IP54 Front Panel

Remote Mounting Instructions

Publication reference: 1601-0724-A1

Copyright © 2025 GE Vernova

Publication Date: February 2025

Contents

1.	Introduction.....	3
2.	Remote Panel	4
3.	Remove Front Panel	4
4.	Attach brackets	5
5.	Mount Front Panel.....	6
6.	UR chassis	8
6.1.	Remove brackets.....	8
6.2.	Attach brackets	8
6.3.	Attach mounting cover	9
6.4.	Mount UR chassis.....	10
7.	Connect.....	11
8.	For further assistance.....	12

1. Introduction

IP54 is an international standard to indicate enclosure effectiveness of a device, where the first digit “5” indicates some protection against dust and the second digit “4” indicates protection against water splash/spray.

The IP54 Front Panels from GE replaced the Enhanced Front Panels on manufactured UR devices, using the same order code, and were phased in between 2018 and 2020. The IP54 Front Panel is also referred to as the Enhanced Front Panel Rev. 2. It conforms to an IP54 rating when used with the IP54 mounting collar kit purchased separately, and otherwise it conforms to an IP40 rating.

The front panel can be mounted separately from a UR chassis, for example onto a metal control panel. Brackets are attached to the front panel, then the front panel is mounted on the control panel. The UR chassis also can be mounted on another panel. These brackets and parts are purchased separately from the UR. The kit is called the “UR-H Remote Mounting Accessories Kit IP54 FP & 2nd Gen. Chassis” (part number UR18340007). The kit has all parts required for remote mounting and includes:

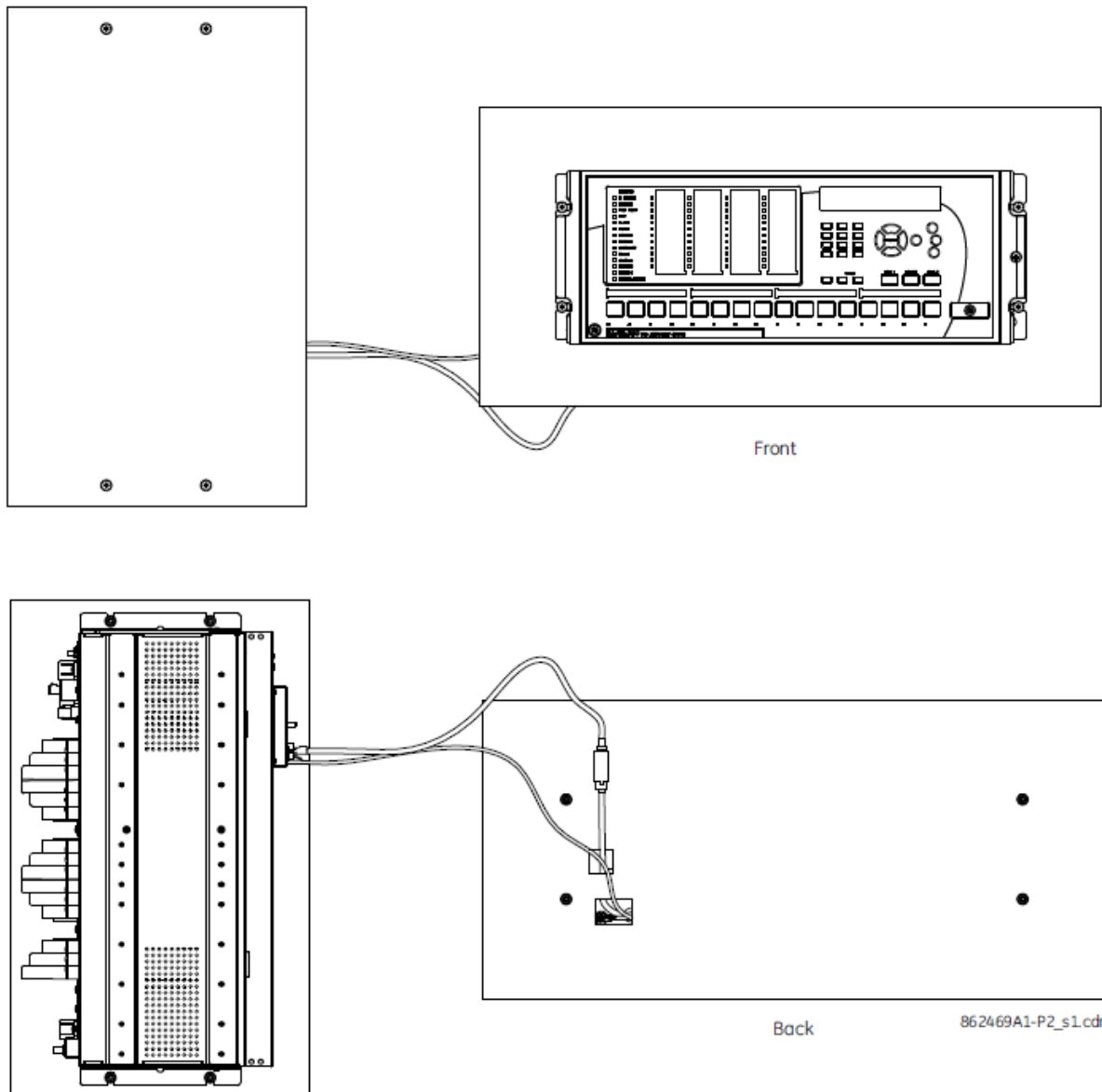
- Brackets with screws for both front panel and UR
- Cables with connectors
- Cover panel for UR.

Parts

Part Number	Quantity	Description
0804-0177	1	CABLE SH. TWIST. PAIR
0804-0178	1	42" GROUND CABLE
1001-0190	2	NEW UR BASIC MOUNTING BRACKET, BASIC OPTION
1001-0201	1	UR IP54 & GRAPHICAL FP REMOTE MOUNTING BLK_LEFT
1001-0202	1	UR IP54 & GRAPHICAL FP REMOTE MOUNTING BLK_RIGHT
1104-0259	1	CAT 6 BLACK STRAIGHT THRU COUPLER
1402-0018	1	#6X1/2" S/TAP PAN HD PHIL BLACK OXIDE PLASTITE
1403-0023	8	SCREW PHILLIPS FLATHEAD #8-32X5/16" UNDERCUT BLACK ZINC PLATED STEEL
1408-0306	4	MS PAN/PHIL BLACK OXIDE ON STAINLESS STEEL #8-32x3/8"
1410-0008	8	#10-32X1/2" PAN HD PHILIPS ZINC MACH.
1412-0015	4	#8-32X1/4 " PAN HEAD PHIL BLACK SCREW
1422-1032	8	10-32 LOCKNUT
1430-0051	16	WASHER FLAT #10 0.438" _OD 0.203" _ID 18-8 SS BLACK_OXIDE
1435-0002	4	#8 EXTERNAL STAR WASHER
1601-0724	1	UR IP54 FRONT PANEL REMOTE MOUNTING ASSEMBLY INSTRUCTION
18A0-1086	1	UR IP54 HORIZONTAL REMOTE MOUNTING COVER SUBASSEMBLY

This document explains how to attach the brackets and mount the IP54 Front Panel remotely from the UR chassis. Instructions are provided first for the front panel, then the UR chassis.

In the example shown, the horizontal UR chassis is mounted vertically. The IP54 front panel is shown without the IP54 mounting collar kit. When planning the installation, note that the grounding wire extension supplied is 42 inches long, and the CPU shielded twisted-pair cable is 36 inches long.



Installed

2. Remote Panel

The remote panel can be 14 gauge (0.078 inch) thick and galvanealed, with A40/ZF120 minimum coating, to the ASTM A653 standard. It can be spray-painted a low gloss black powder epoxy. The remote panel is customer-supplied.

3. Remove Front Panel

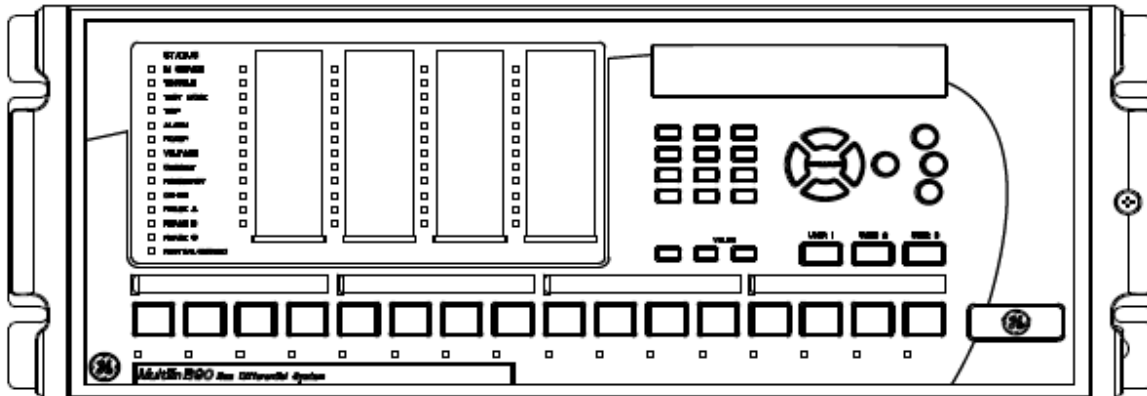
The IP54 Front Panel can be purchased separately or taken from an existing UR. The front panel can be identified by the screw that requires a screwdriver to tighten it on the right side, instead of a sliding latch or a finger-tightened screw. If applicable, use this procedure to remove a front panel from an existing UR.



Ensure that power to the UR device and front panel has been disconnected, else death or injury may result

To remove an IP54 Front Panel from a UR:

1. Unscrew the panel at the single screw on the right side, and open the panel.



862717A1-P2.cdr

2. Disconnect the grounding wire and CPU connector cable. The figure shows a front panel (left) connected to a UR chassis (right). The grounding wire is the flat grey ribbon cable at the top. The CPU cable is the black RJ54 cable at the bottom. The CPU module is in the second slot of the UR, labeled slot D.



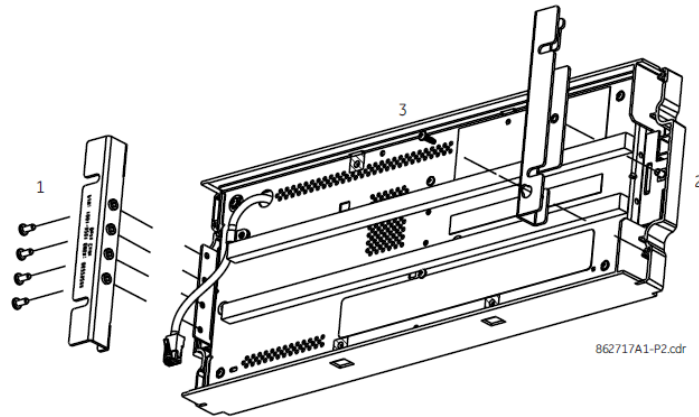
3. Rotate hinge to door closing location.

4. Attach brackets

The remote mounting brackets provided in the kit need to be installed on the front panel. The numbers in the following diagram correspond to the steps here.

To attach remote mounting brackets to an IP54 Front Panel:

1. For the left bracket, align the bracket that has four screws holes (1001-0201) with the four holes at the back-left of the front panel, insert the four No. 8 screws (1408-0306), and tighten with the nuts using torque of 16 ± 1 inch-pounds. The left bracket is now installed.
2. For the right bracket, using the captive screw attached to the front panel on the right side, attach the front panel to the middle of the second bracket (1001-0202). The front panel captive screw is a self-taping No. 6-19 screw. Use torque of 19 ± 1 inch-pounds.
3. Insert the No. 6 screw (1402-0018) into the keyhole at the back of the right bracket, and tighten using torque of 13 ± 1 inch-pounds. The right bracket is now installed.



5. Mount Front Panel

With the brackets installed, the following two options are possible to mount the IP54 Front Panel on a remote panel:

- Install front panel — The front panel has IP40 rating
- Install front panel and IP54 Mounting Collar Kit — The front panel has IP54 rating. Install the IP54 Front Panel on the remote panel, then install the IP54 mounting collar over the front panel

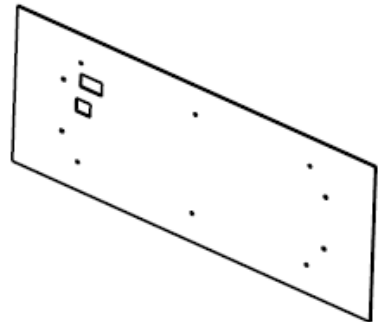
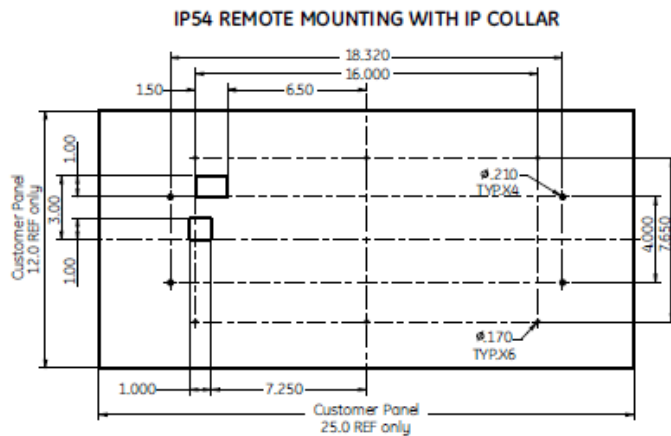
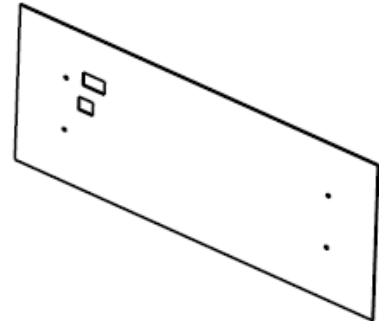
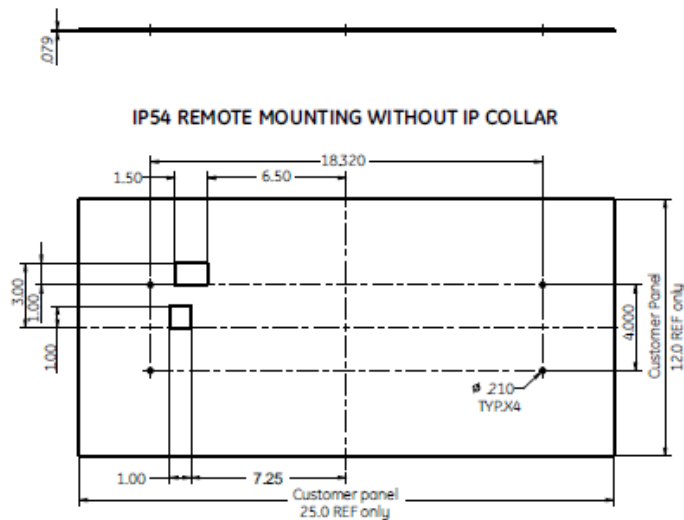
There is no gap between the IP54 Front Panel and the remote panel. IP54 Gap Fillers are not required.



Ensure that power to the UR device and front panel has been disconnected, else death or serious injury can result.

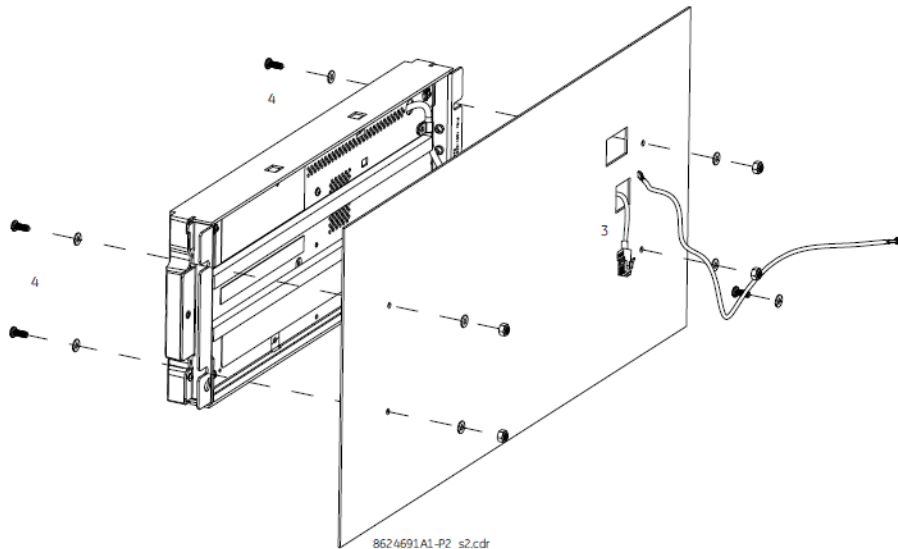
To install the IP54 Front Panel on a remote panel:

1. Cut and drill holes in the remote panel for the wire-passthroughs and screws. The grounding cable and CPU connector need to go through the holes. See the following figure, and otherwise see the dimension drawings in a UR instruction manual for locations of the screw holes. GE does not supply any panels; GE supplies the drawings in the manuals. Remove/sand sharp edges from the cuts.



Cutouts for remote front panel (dimensions in inches)

2. Pass the ground cable extension (0804-0178) provided in the kit through a hole in the remote panel and connect it to the front panel. See step 2 in the next figure.
3. Pass the CPU cable from the front panel through a hole in the remote panel.
4. Screw the front panel into the remote panel using four No. 10 screws (1410-0008), eight washers (1430-0051), and four nuts (1422-1032) provided, tightening to 20±1 inch-pounds. The front panel is now installed on the remote panel.
5. If using an IP54 Mounting Collar Kit, install it. The front panel now has an IP54 rating.



Front panel mount

6. UR chassis

This section outlines how to install the UR chassis on a remote panel and connect it.



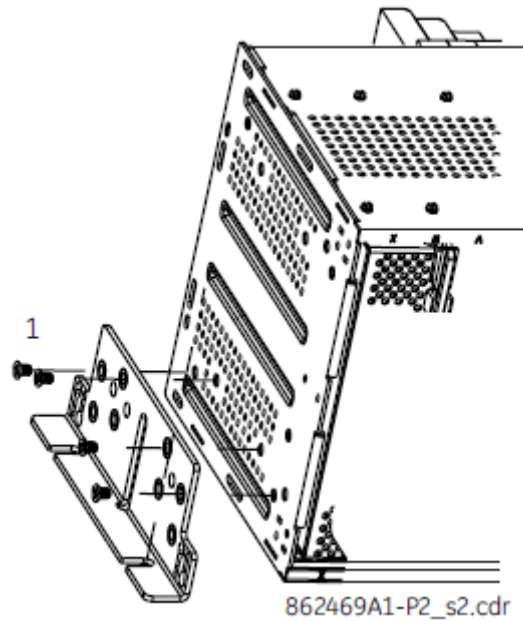
Ensure that power to the UR device and front panel has been disconnected, else death or serious injury can result.

6.1. Remove brackets

Remove the left and right mounting brackets from the front of the UR chassis.

6.2. Attach brackets

Install the remote mounting brackets (1001-0190) on both sides of the chassis, using the eight No. 8 screws (1403-0023) and applying 19±1 inch-pounds torque. They go at the bottom of the left and right sides.



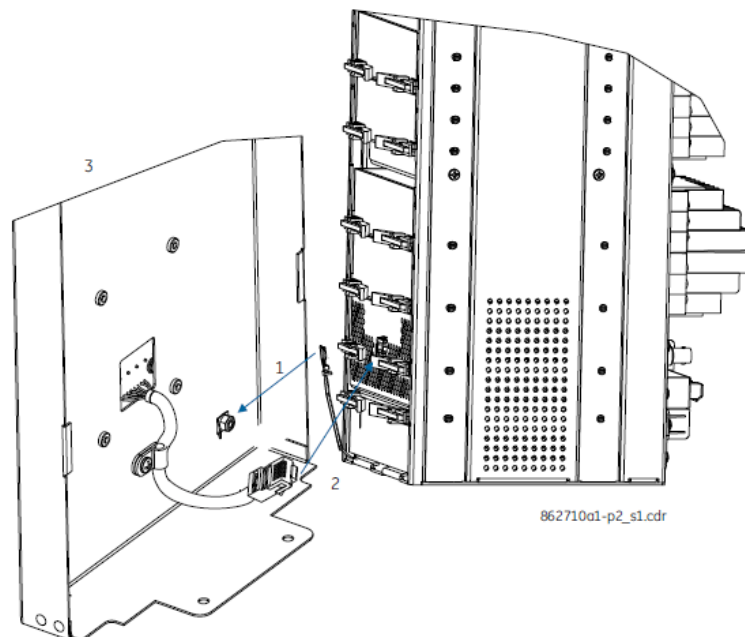
Left bracket installation

6.3. Attach mounting cover

The cover supplied in the kit goes over the front of the UR chassis, where the modules are exposed.

To attach the cover on the UR chassis:

1. Connect the grey grounding cable from the UR chassis to the remote mounting cover.
2. Connect the CPU connector from the remote mounting cover to the CPU module in the UR chassis. The CPU module is in the second slot, labeled D.
3. Place the remote mounting cover (18A0-1086) over the front of the UR chassis, and secure it with screws (1412-0015) and washers (1435-0002), applying 19±1 inch-pounds torque. The cover is now installed.



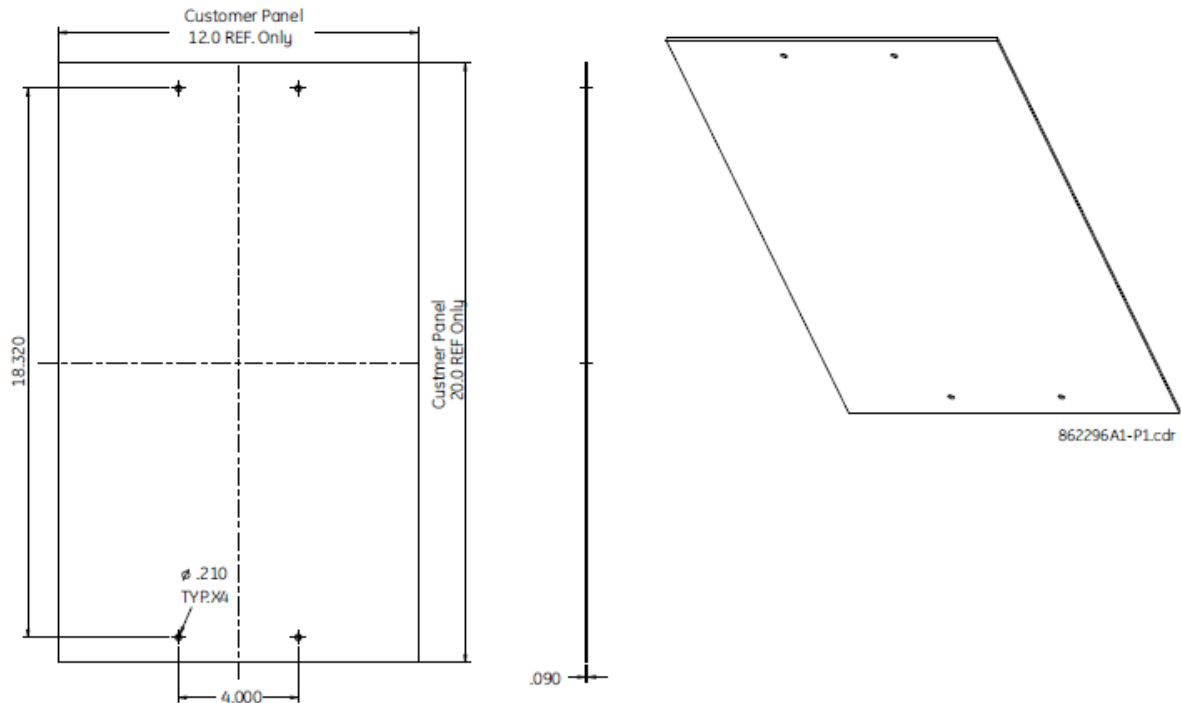
UR mounting cover and connections

6.4. Mount UR chassis

To mount a UR chassis on a panel:

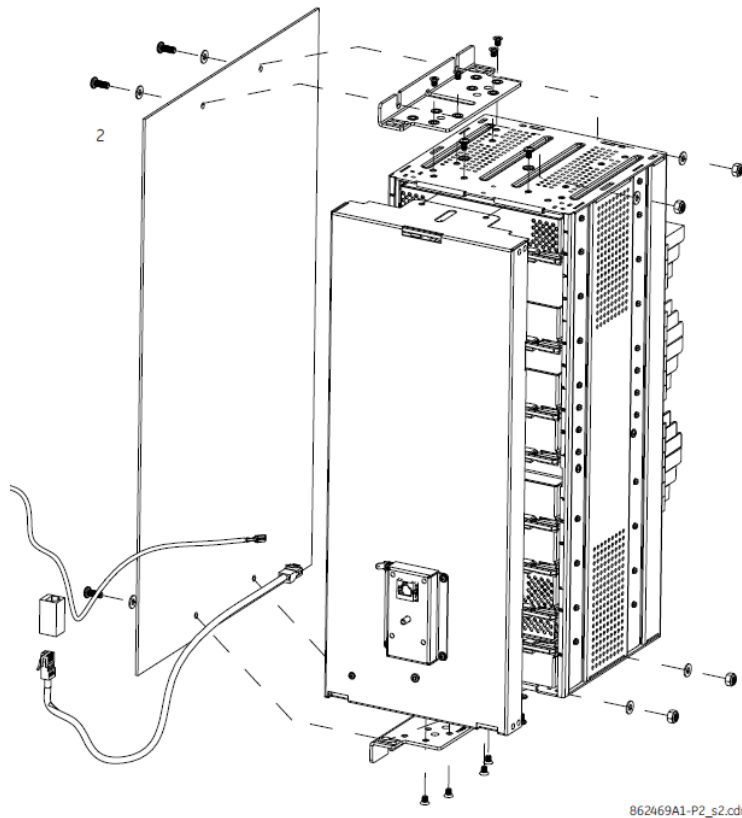
Drill the four mounting holes on the panel.

1. Drill the four mounting holes on the panel.



Drill holes for remote UR mounting (dimensions in inches)

2. Mount the UR with four No. 10 screws (1410-0008), eight washers (1430-0051), and four locknuts (1422-1032), applying 22±1 inch-pounds torque. The UR chassis is now installed on the panel.



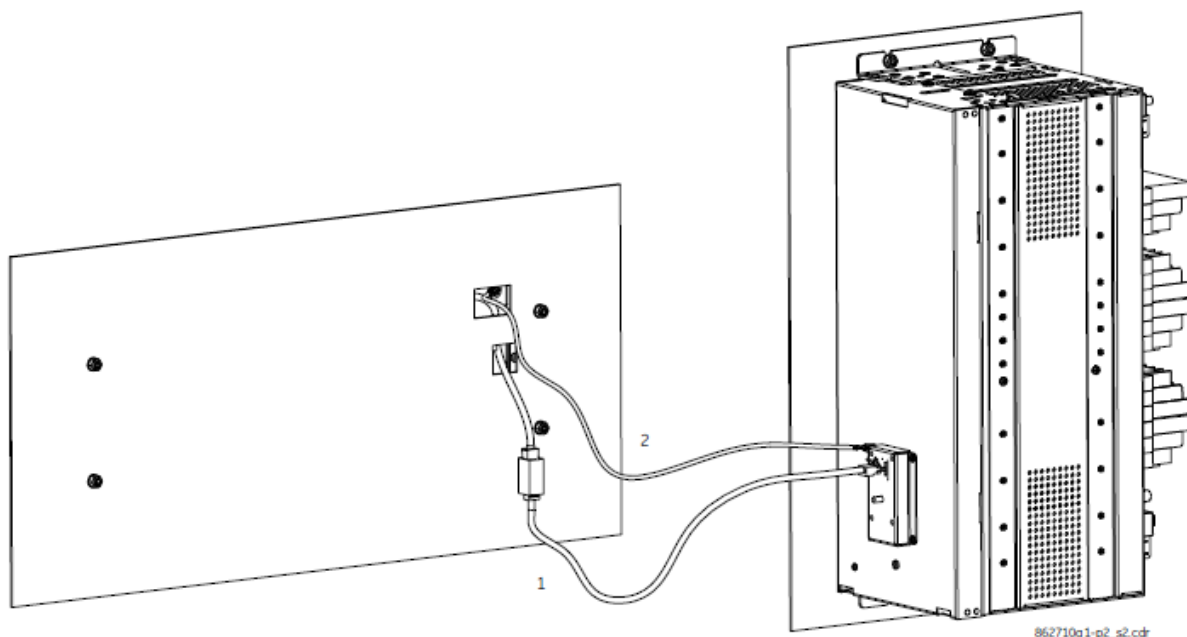
Chassis installation.

7. Connect

The grounding wire extension provided is 42 inches long. The CPU shielded twisted-pair cable is 36 inches long.

To connect the IP54 front panel to the UR chassis:

1. Connect the two CPU cables using the Cat 6 FM609 black straight through coupler supplied (1104-0259). That is, connect the extension cable (0804-0177) to the UR, then to front panel connector using the coupler.
2. Connect the extension grounding wire from the front panel and the CPU cable to the UR cover over the chassis. The front panel and UR are now connected.
3. Connect the UR to power. Installation is complete.



Extension cables connected

8. For further assistance

GE Vernova
650 Markland Street
Markham, Ontario
Canada L6C 0M1
Worldwide telephone: +1 905 927 7070
Europe/Middle East/Africa telephone: +34 94 485 88 54
North America toll-free: 1 800 547 8629
Fax: +1 905 927 5098
Worldwide e-mail: GA.support@gevernova.com
Website: <https://www.gevernova.com/grid-solutions/multilin/>