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1   Description

The TR-RPU Remote Paging Unit provides a supervised microphone that is used for live communication. It is used as an interface for the Triga Series, Emergency Communication System. If the TR-RPU is intended to be used as a functional LOC, it requires the installation of an associated TR-RD1G remote annunciator. See Figure 1.
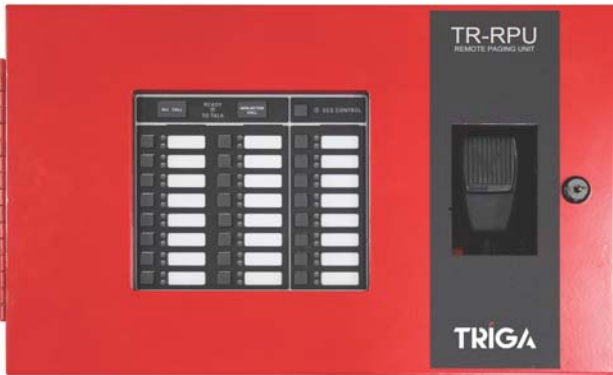

Figure 1 TR-RPU (Remote Paging Unit)

NOTE: The installation and the wiring of this device shall be performed in accordance with the NFPA 72 and the local ordinances.

1.1 Compatibility

The TR-RPU is compatible with the following Triga Series, Fire Alarm Control Panels (FACPs).

• TR-2100R   • TR-2100ECSR

For information on the programming and DIP switch settings, refer to the following FACP Installation Manuals. The documents are located on the Triga website, www.trigaglobal.com.

Document	Document Part Number
TR-2100RECSR Manual	LS10143-003TR-E
TR-RPS1-Manual	LS10259-003TR-E
Triga ECS Manual	LS10262-003TR-E

1.2 Electrical Ratings

The electrical specifications are as follows.

• Standby Current: 70mA
• Alarm Current: 100mA

2   Mounting the Cabinet

To install and mount the cabinet, perform the following steps.

1. Open the cabinet door, remove the dead front panel screws and open the dead front panel.
2. Remove the AC power and disconnect the backup batteries from the Main Control Panel.
   • If you mount the cabinet on the interior walls, use the appropriate screws such as #10 sheet rock or a concrete screw to anchor it into the plaster.
   • If you mount the cabinet on concrete, especially when moisture is expected, attach a piece of ¾ inch (1.9cm) plywood to the concrete surface and then attach the TR-RPU to the plywood.

2.1 Surface Mounting

The cabinet can be mounted on the wall surface by using the mounting holes in the back of the cabinet.

1. Insert the two screws level (aligned) with each other, 12" (3.48 cm) spacing apart from the top cabinet key shaped holes.
2. Hang the cabinet onto the two screws. Tighten the screws.
3. Insert the two screws into the two bottom mounting holes. Tighten the screws and secure the screws to the cabinet. Refer to Figure 2.
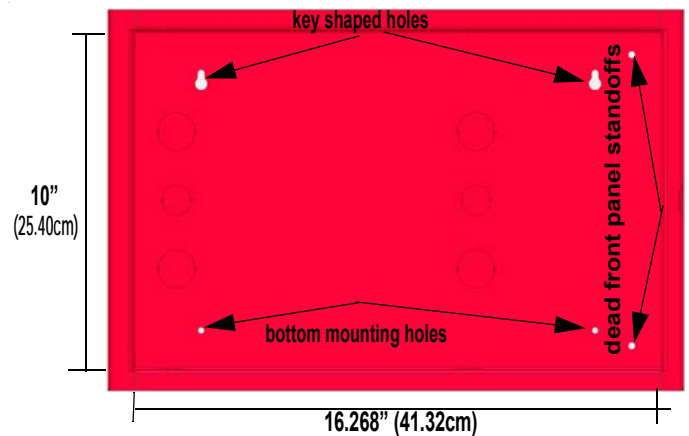

Figure 2 Cabinet Mounting Holes

2.2 Recessed Mounting

Refer to the following steps to recess mount the cabinet:

1. Remove the cabinet door and the dead panel front.
2. Cut a recess hole.
   There should be 1.5" to 1.75" (3.8 cm to 4.4 cm) spacing from the cabinet extending from the wall. The spacing should be measured from either the top edge or the bottom edge to the exterior side of the sheet rock.
3. To mount the cabinet to the wall studs, insert a screw through the cabinet's side mounting holes and into the wall studs.
4. Re-attach the cabinet door and the dead front panel assembly.

2.3 Accessing the Board

When it is necessary to access the board, refer to the following steps to open the dead front panel 180°.

1. Remove the two dead front panel screws near the microphone.
2. Loosen the two dead front panel hinge plate nuts that are in the long slots.
3. Open the dead front panel 90 degrees and then pull the dead front forward. Tighten the two nuts. The dead front panel can be opened at 180°. Refer to Figure 3.

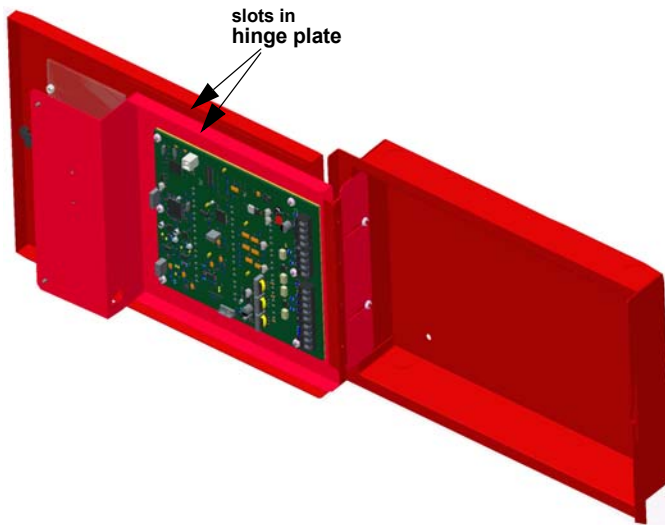Figure 3 shows the TR-RPU dead front panel door assembly.

Figure 3 TR-RPU Dead Front Panel Open at 180°

2.4 Board Layout

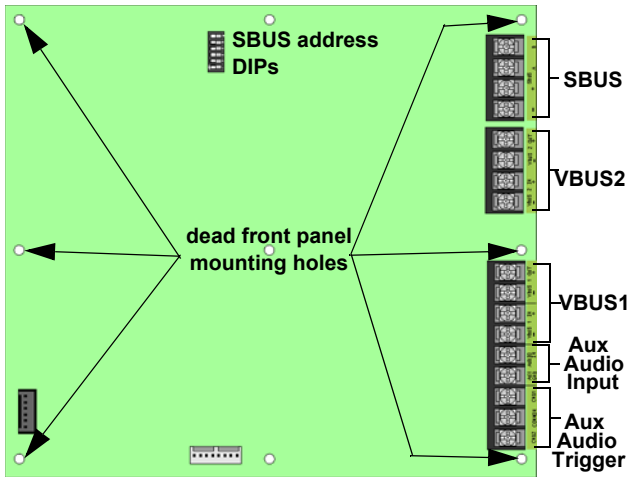Figure 4 shows the TR-RPU board back view.

Figure 4 TR-RPU Board Back View

3   Wiring the TR-RPU to the FACP

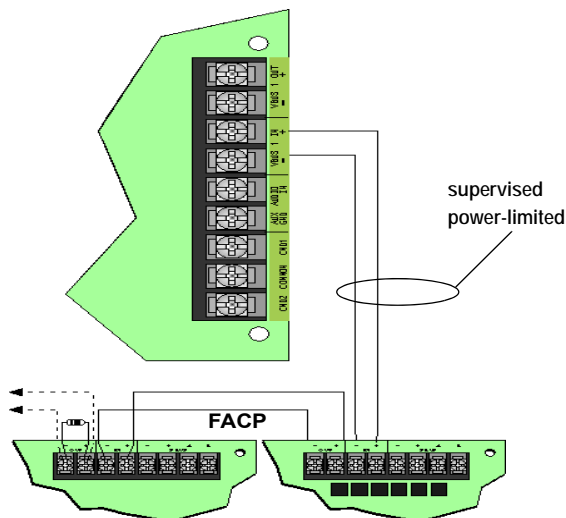To properly wire the TR-RPU to the FACP SBUS, refer to Figure 5.

Figure 5   TR-RPU to the FACP Wiring Connections

3.1 Microphone Installation

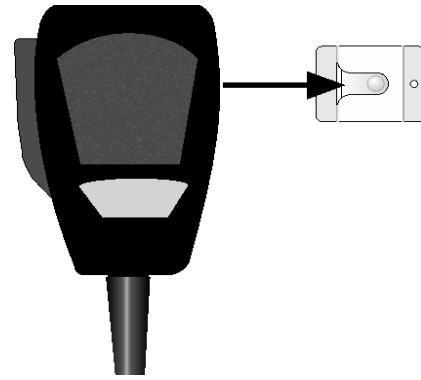1.   Attach the microphone into the microphone clip. See Figure 6.

Figure 6   Sliding the Microphone into the Microphone Clip

2.   Insert the microphone cord through the hole at the bottom of the dead front panel. See Figure 7.
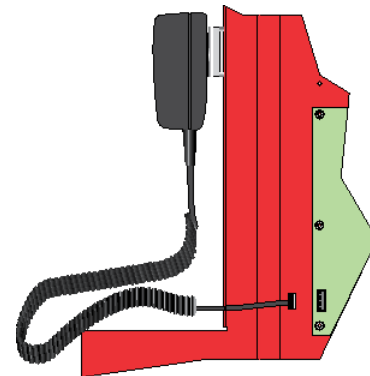

Figure 7   Microphone Cord Inserted Through the Dead Front Panel Hole

3.   Attach the Strain Relief Clip to the microphone cord. The Strain Relief Clip should have about 2¾" (6.98 cm) of microphone cord through it. Refer to Figure 8.

4.   Push the strain into the hole to the dead front panel.

5.   Connect the microphone cord.

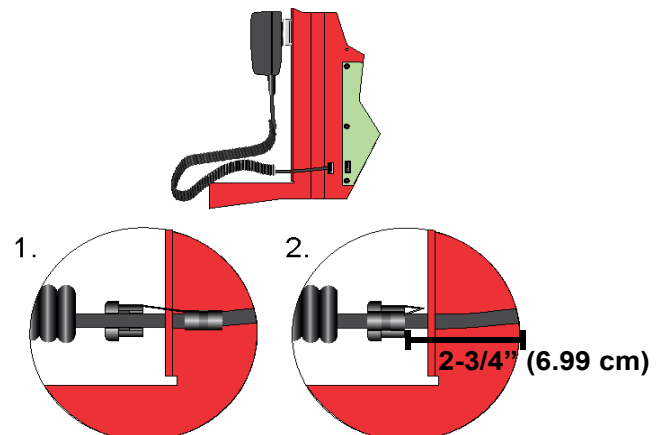6.   Restore the AC power and reconnect the backup batteries.

Figure 8   Strain Relief Clip Installation

3.2 Optional Accessory

The optional accessory is the THUMBLTCH - Turn latch lock.

NOTE: The THUMBLTCH is not intended for use with the UL® installations.