Honeywell

HMI (Touch Panel Interface)

MOUNTING INSTRUCTIONS/INSTRUCTIONS DE MONTAGE/INSTRUCCIONES DE MONTAJE

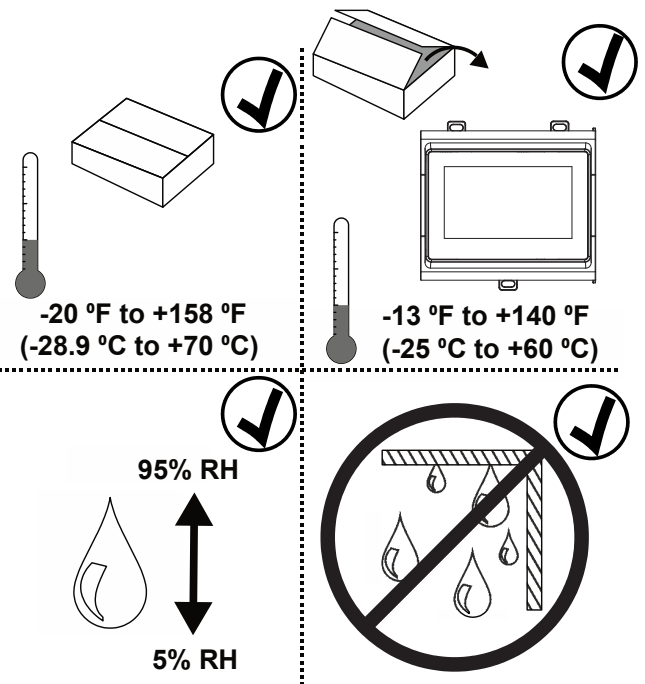|					
E	Keep these instructions together with the device or with the equipment documentation!	F	Cette instruction est à conserver avec le contrôleur ou avec la documentation de l'installation!	P	Guarde estas instruções junto do regulador ou junto da documentação da instalação!
D	Diese Anleitung ist beim Gerät oder in der Anlagendokumentation aufzubewahren!	I	Queste istruzioni devono essere conservate insieme al lettore o con la documentazione dell´impianto!	S	Denna instruktion skall förvaras tillsammans med regler eller anläggningsdokumentationen!
DK	Opbevar denne vejledning sammen med regler eller med anlægsdokumentationen	N	Denne veiledningen skal oppbevares sammen med regler eller anleggsdokumentasjonen!	FI	Tätä ohjetta tulee säilyttää laitteen läheisyydessä tai yhdessä muiden dokumenttien kanssa!
ES	Conserve estas instrucciones con el recalar o con la documentación de la instalación.	NL	Deze handleiding moet bij de regelaar, of met de documentatie van de installatie worden bewaard!	PL	Instrukcję obsługi należy przechowywać przy urządzeniu albo w dokumentacji technicznej.

CONTENTS OF SHIPMENT

1. HMI (Touch Panel Interface): 1 Qty
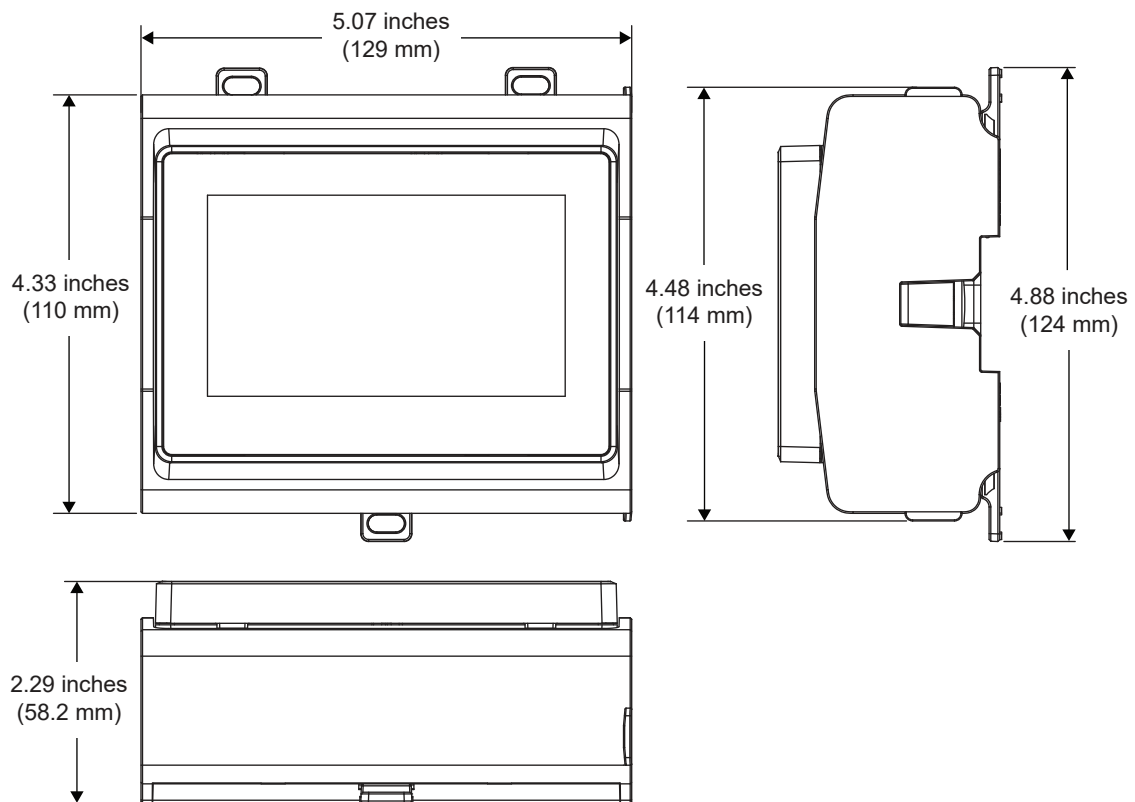2. Mounting Instructions: 1 Qty
3. RJ-11 cable: 2 Qty
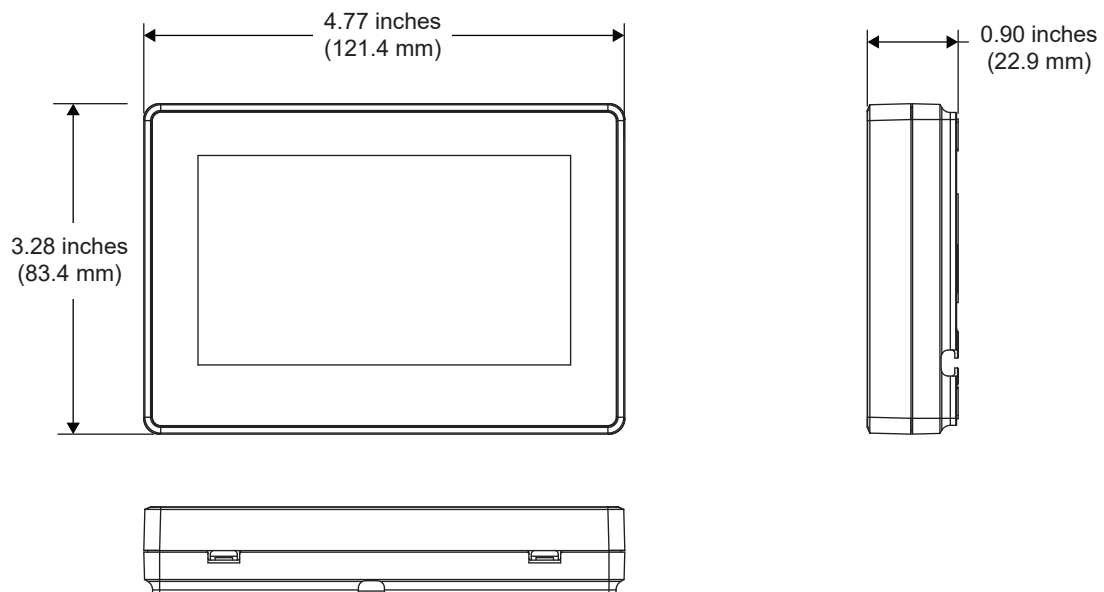
STORAGE AND OPERATION

-20 ºF to +158 ºF
(-28.9 ºC to +70 ºC)

-13 ºF to +140 ºF
(-25 ºC to +60 ºC)

95% RH

5% RH

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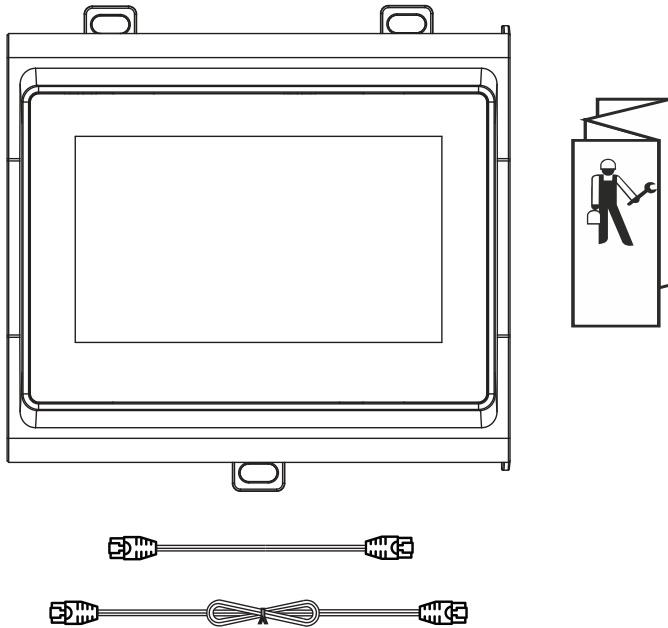
DIMENSIONS

DIN RAIL BASE

5.07 inches
(129 mm)

4.33 inches
(110 mm)

4.48 inches
(114 mm)

4.88 inches
(124 mm)

2.29 inches
(58.2 mm)

PANEL DOOR/WALL BASE

4.77 inches
(121.4 mm)

0.90 inches
(22.9 mm)

3.28 inches
(83.4 mm)

Note: *All dimensions are in inches (mm).*

GENERAL SAFETY INFORMATION

⚠ **WARNING**

ELECTRICAL SHOCK HAZARD.

Can cause severe injury, death or property damage. Disconnect the power supply before beginning installation to prevent electrical shock and equipment damage. More than one power supply may have to be disconnected.

• When performing any work (installation, mounting, start-up), all manufacturer instructions and in particular the Installation and Commissioning Instructions (31-00554-01) are to be observed.
• The HMI may be installed and mounted only by authorized and trained personnel.
• Rules regarding electrostatic discharge should be followed.
• If the HMI is modified in any way, except by the manufacturer, all warranties concerning operation and safety are invalidated.
• FCC-CERTIFIED: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: *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 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.

• This device complies with Industry Canada (IC) Canadian Radio Interference Regulations.
• Make sure that the local standards and regulations are observed at all times. Examples of such regulations are VDE 0800 and VDE 0100 or EN 60204-1 for earth grounding.
• Use only accessory equipment which comes from or has been approved by Honeywell.
• It is recommended that devices be kept at room temperature for at least 24 hours before applying power. This is to allow any condensation resulting from low shipping/storage temperatures to evaporate.

• The HMI must be installed in a manner (e.g., in a lockable cabinet) ensuring that uncertified persons have no access to the terminals.
• Investigated according to United States Standard UL-60730-1, UL-916, and UL60730-2-9.
• Investigated according to Canadian National Standard(s) C22.2, No. 205-M1983 (CNL-listed).
• Do not open the HMI, as it contains no userserviceable parts inside!
• CE declarations according to LVD Directive 2014/35/EU and EMC Directive 2014/30/EU.
• Product standards are EN 60730-1 and EN 60730-2-9.

WHEN INSTALLING THIS PRODUCT

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and marked on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check the product operation.
5. Be sure wiring complies with all applicable codes, ordinances and regulations.

SPECIFICATIONS OF THE HMI

Power Supply	300 mA at 5 Vdc (Power Supply from the controller
Display Type	Capacitive, TFT color diplay
Resolution	480x272 pixel, WQVGA
Colors	16bits
Backlight	400 Cd/m2 typ.
Degree of Protection	IP30

STANDARDS AND APPROVALS

Certification	CE, FCC/IC, UL/ULC
Shock Protection	Class 3
Operating System	OSAL
User Memory	8 MB Flash disk
RAM	512 KB SRAM

REFERENCE TECHNICAL LITERATURE

| Title	Literature Number
Product Datasheet	31-00585-01
Installation Instruction and Commissioning Guide	31-00586-01
Quick Start Guide	31-00587-01
Driver Guide	31-00590-01

HMI WITH DIN RAIL BASE

The HMI with DIN Rail base is an assembly of a display unit, and a base unit that mounts on the same DIN Rail that the Plant Controller is installed. The base unit has four extendable screw clips to facilitate the mounting on a wall using screws.

MOUNTING THE HMI WITH DIN RAIL BASE ON A DIN RAIL

NOTE: If you need remove or replace the cable, two RJ11 cables of different lengths are available with the HMI with the DIN Rail Base model. The user can use the longer cable 9.84 ft (3 m) when mounting the HMI away from the controller or, the shorter cable 0.8 ft (0.25 m) when mounting near the controller. It is recommende to use only the provided RJ11 cable. Do not use Hot plug.

1. Make sure the controller is already mounted on DIN rail.
2. Insert a flat blade screwdriver at the slots on the bottom of the HMI assembly and push in.
3. Use the screwdriver as a lever and leverage the display unit from the base unit, as shown in the below figure.

Display Unit
Slots
Base Unit
Flat Blade Screwdriver
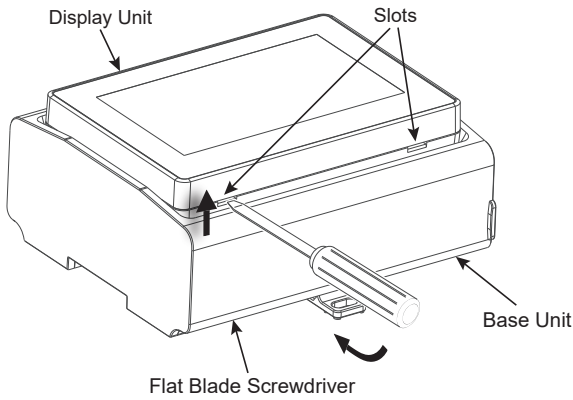
4. Extend all red clips to the unlock position as shown in the below figure.
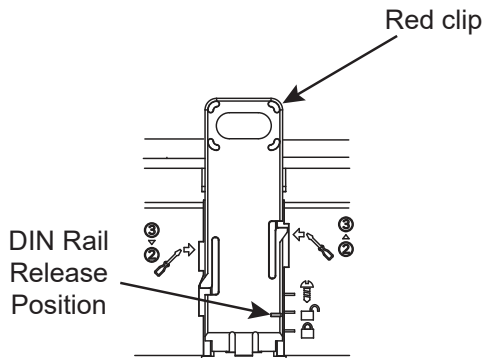
Red clip
DIN Rail Release Position

5. Connect the RJ11 cable end to the controller and pass the other end through the base unit opening as shown in the below figure.
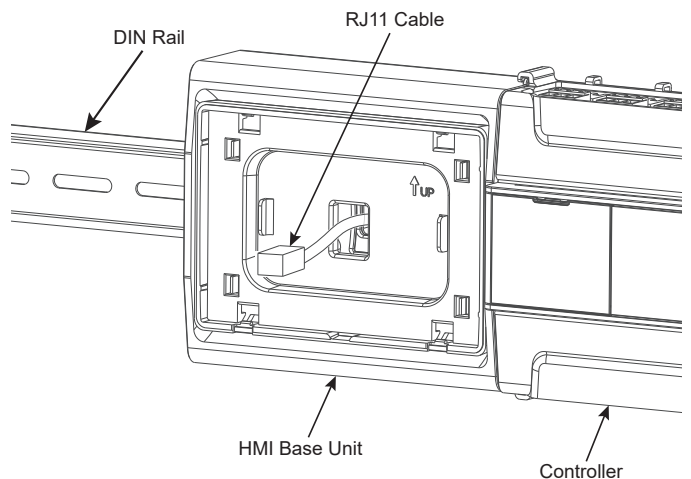

Base Unit Opening
Controller
Base Unit
DIN Rail
RJ11 Cable

6. Route the RJ11 cable through the base unit cable outlet.
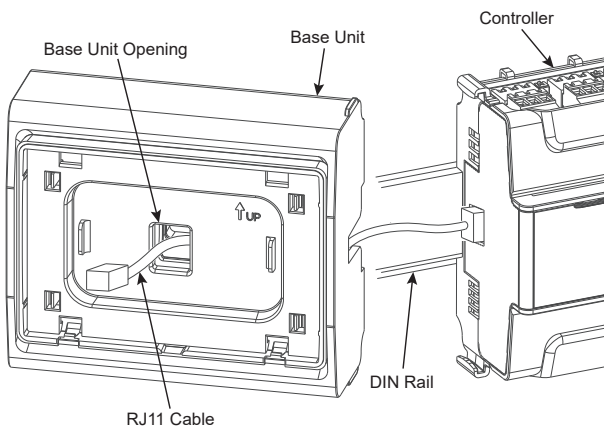
Base Unit
RJ11 Cable
Cable Outlet
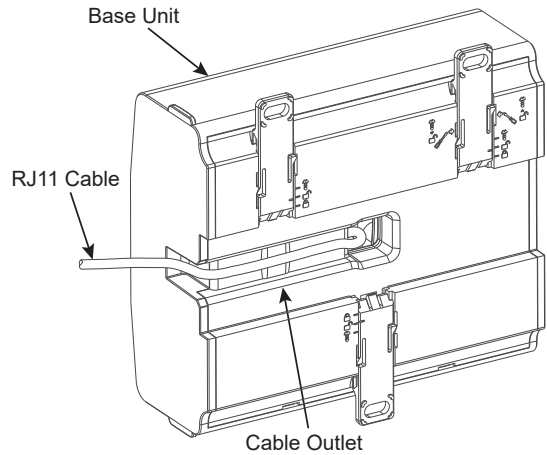
7. Mount the base unit so that the edge-hook of the base unit aligns with the axis of the edge slot of the controller, so the controller and base unit grip each other.
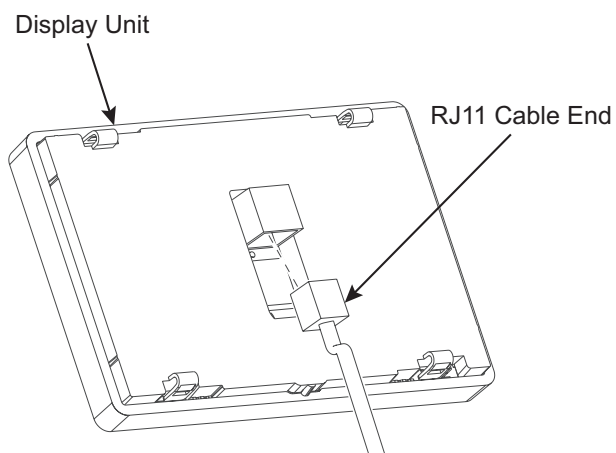

Base Unit Edge-hook
Controller Edge-slot
DIN Rail
RJ11 Cable
Base Unit
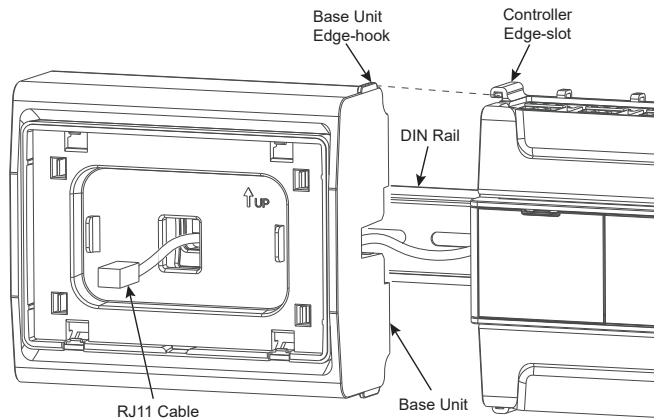
8. Push all red clips of the base unit in to secure it in place.

DIN Rail
RJ11 Cable
HMI Base Unit
Controller

HMI WITH DIN RAIL BASE

9. Connect the RJ11 cable end to the display unit.

Display Unit

RJ11 Cable End

10. Route the cable through the side clip as shown in the below figure and attach the display unit onto the base unit.
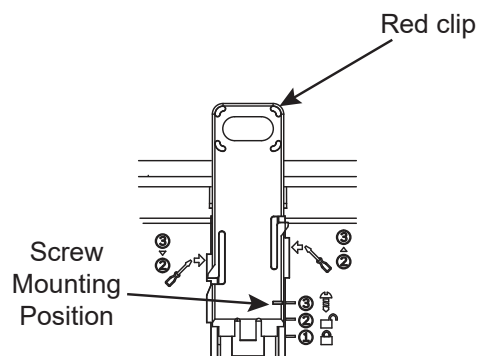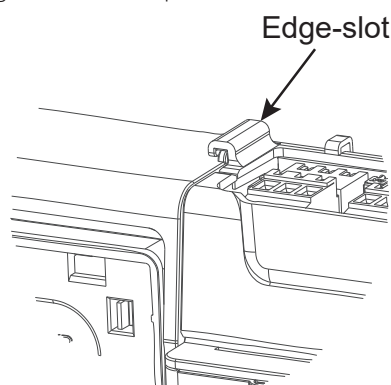

Base Unit

Side Clip

Display Unit
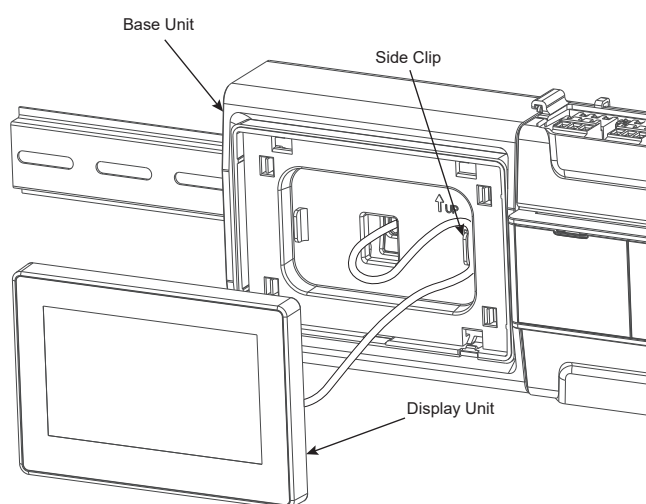
MOUNTING THE HMI WITH DIN RAIL BASE ON A WALL USING SCREWS

NOTE: Two RJ11 cables of different lengths are available with the HMI with the DIN Rail Base model. The user can use the longer cable 9.84 ft (3 m) when mounting the HMI away from the controller or, the shorter cable 0.8 ft (0.25 m) when mounting near the controller. It is recommende to use only the provided RJ11 cable. Do not use Hot plug.

1. Make sure the controller is already mounted on the wall.
2. Insert a flat blade screwdriver at the slots on the bottom of the HMI assembly and push in.
3. Use the screwdriver as a lever and leverage the display unit from the base unit, as shown in the below figure.

Display Unit

Slots

Base Unit

Flat Blade Screwdriver
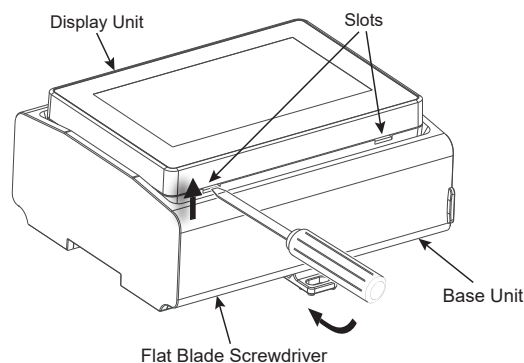
4. Insert the flat blade screwdriver at any marked locations and move up the nod from lower slot to upper slot to extend all red clips for screw mounting, as shown in the figure below.



Red clip

Screw Mounting Position

5. If you are mounting the HMI next to the controller, then insert the base unit edge-hook in the edge-slot of the controller along the wall and mark three drilling locations through the screw clip slots.


Edge-slot

6. Remove the Base Unit from the wall and drill four holes at the marked locations.
7. Insert anchors into the four mounting screw holes.

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HMI WITH DIN RAIL BASE

8. Connect the RJ11 cable end to the controller and pass the other end through the base unit opening, as shown in the figure below.

Base Unit Opening

Controller

↑UP
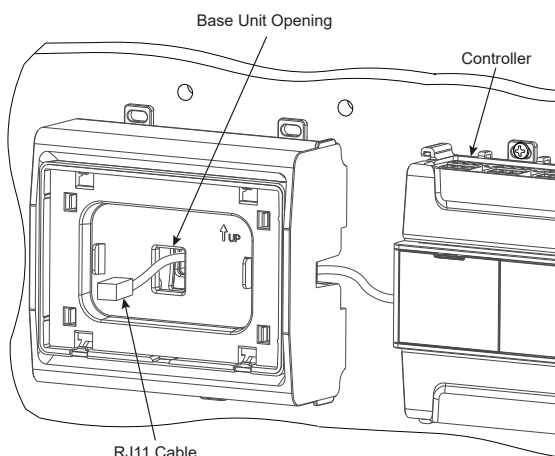
RJ11 Cable

9. If applicable, route the RJ11 cable through the base unit cable outlet, hold the base unit along the wall to align the holes, and clip the base unit with the controller.
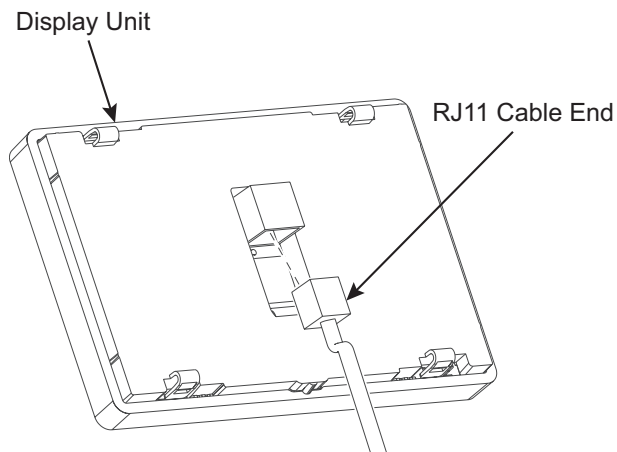

Base Unit

RJ11 Cable

Cable Outlet
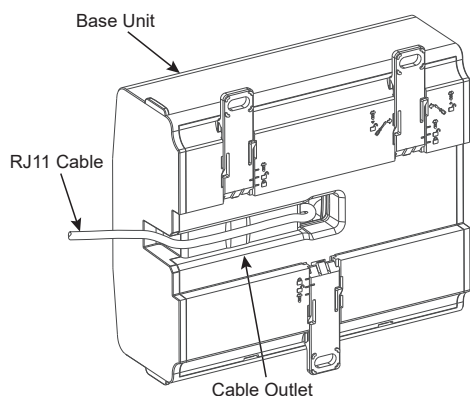
10. Insert the screws into the topside holes first and fasten them with a screwdriver.

NOTE: It is recommended to use 6-18 1" pan head Phillips tapping screws

Wall

Anchor

Base Unit

Controller

Screw

↑UP
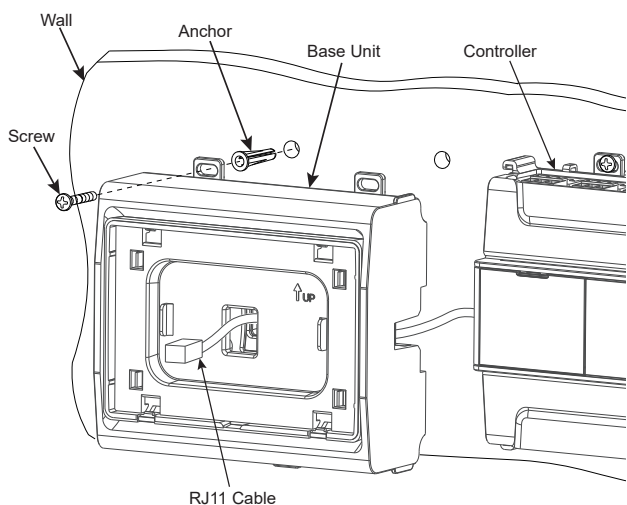
RJ11 Cable

11. Insert the screws into the bottom holes and fasten them with a screwdriver.

12. Connect the RJ11 cable end to the display unit.

Display Unit

RJ11 Cable End

13. Route the cable through the side clip and attach the display unit onto the base unit, as shown in the figure below.

Base Unit

Side Clip

↑UP

Display Unit

.
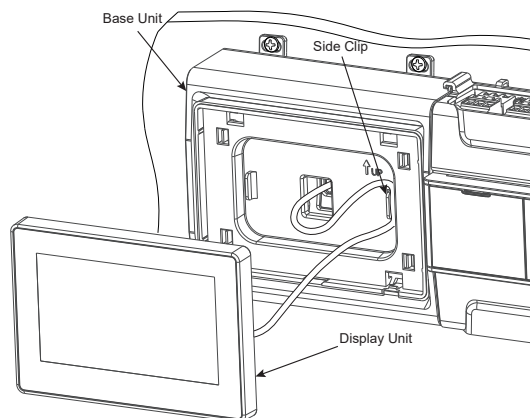
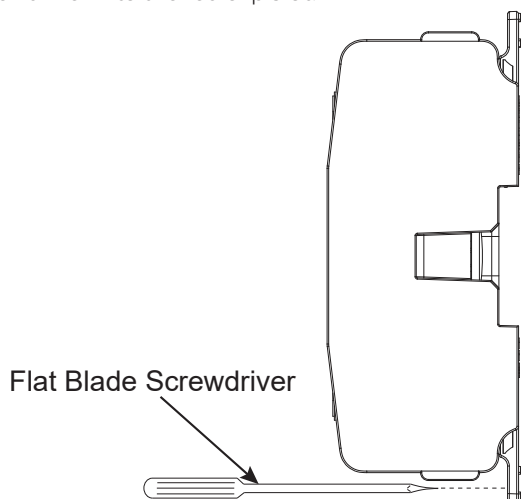# HMI WITH DIN RAIL BASE

REMOVING THE HMI WITH DIN RAIL BASE FROM THE DIN RAIL

1. Insert a flat blade screwdriver at the slots on the bottom of the HMI assembly and push in.
2. Use the screwdriver as a lever and leverage the display unit from the base unit, as shown in the figure below.
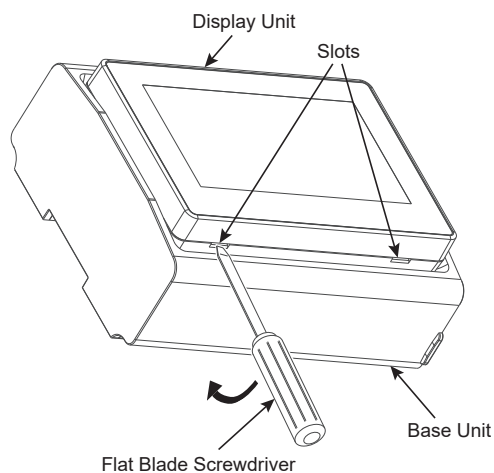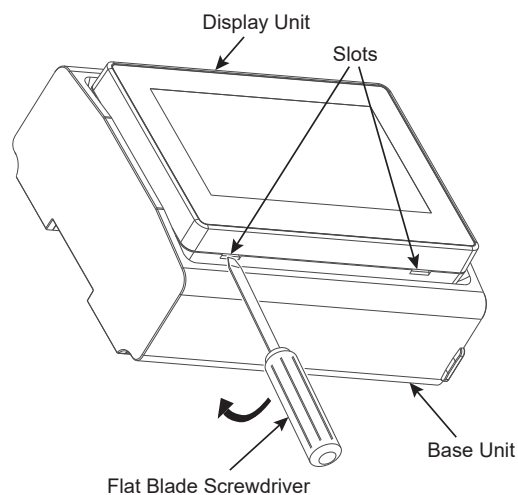

3. Disconnect the RJ11 cable from the controller.
4. Hold the base unit with one hand and insert a flat blade screwdriver into the red clip slot.

5. Pull the red clip downward by using the flat blade screwdriver.
6. After the base unit is released from the DIN rail, slightly tilt it on the horizontal axis, lift, and detach it from the DIN rail.

REMOVING THE HMI WITH DIN RAIL BASE FROM THE WALL

1. Insert a flat blade screwdriver at the slots on the bottom of the HMI assembly and push in.
2. Use the screwdriver as a lever and leverage the display unit from the base unit as shown in below figure.

3. Disconnect the RJ11 cable from the display unit.
4. Unscrew the bottom side screws first by using a screwdriver.
5. Hold the base unit with one hand and unscrew the topside screws.
6. Disconnect the RJ11 cable from the controller.

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HMI WITH PANEL DOOR/WALL BASE

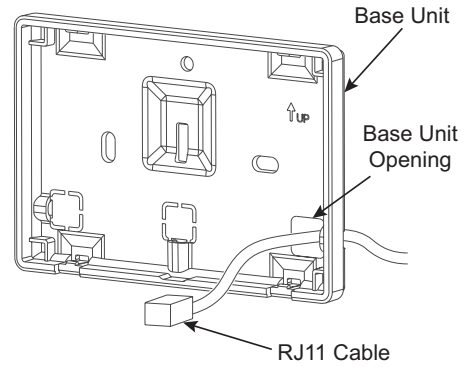The HMI with Panel Door/Wall base is an assembly of a display unit and a base unit that mounts on a panel door/wall.

MOUNTING THE HMI WITH DOOR WALL BASE ON A WALL

NOTE: Two RJ11 cables of different lengths are available with the HMI with the DIN Rail Base model. The user can use the longer cable 9.84 ft (3 m) when mounting the HMI away from the controller or, the shorter cable 0.8 ft (0.25 m) when mounting near the controller. It is recommende to use only the provided RJ11 cable. Do not use Hot plug.

1. Make sure the controller is already mounted on the wall.
2. Insert a flat blade screwdriver at the slots on the bottom of the HMI assembly and push in.
3. Use the screwdriver as a lever and leverage the display unit from the base unit as shown in below figure.
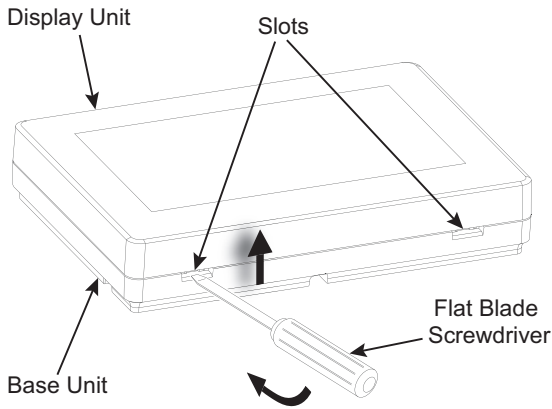
4. Remove one of the knockout holes available on the base unit according to the RJ11 cable routing direction.
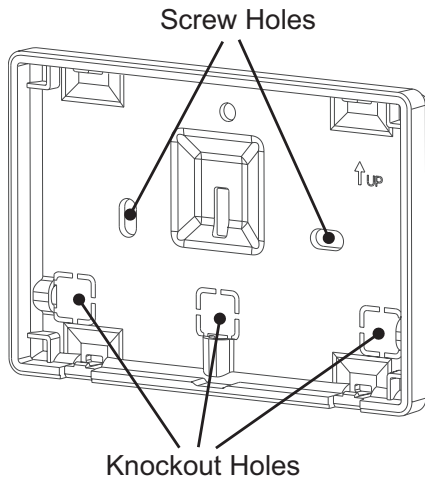
5. Hold the base unit along the wall, level, and mark the drilling locations on the wall through the screw holes of the base unit as shown in the above figure.
6. Remove the base unit from the wall. Drill four holes at the marked locations on the wall with the appropriate sized drill bit based on the building material and the type of anchors/screws you are using. The supplied anchors require a drill bit size of 4.8 mm to 5.5 mm (3/16" to 7/32") for most materials.
7. Insert the supplied anchors into the mounting screw holes.
8. Connect the RJ11 cable end to the controller and pass the other end through the base unit opening, as shown in the figure below.
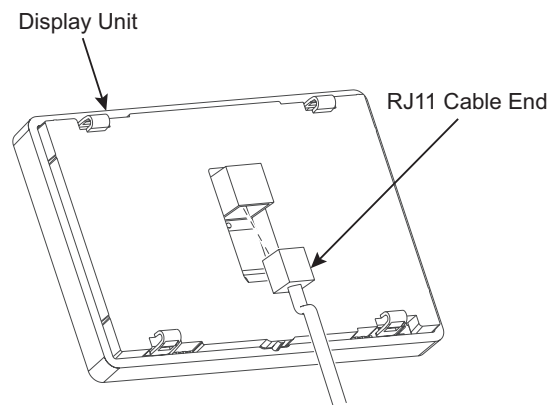

9. Hold the base unit along the wall so that the holes are aligned.
10. Insert the screws provided in the mounting kit into the holes and fasten them with the screwdriver.

NOTE: It is recommended to use the supplied 6-18 1" pan head Phillips tapping screws.
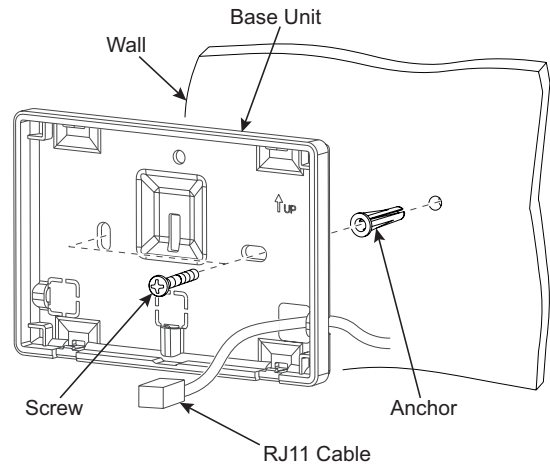
NOTE: 11. Connect the RJ11 cable end to the display unit.


12. Attach the display unit onto the base unit.

HMI WITH PANEL DOOR/WALL BASE

MOUNTING THE HMI WITH DOOR/WALL BASE ON A PANEL DOOR

NOTE: Two RJ11 cables of different lengths are available with the HMI with the DIN Rail Base model. The user can use the longer cable 9.84 ft (3 m) when mounting the HMI away from the controller or, the shorter cable 0.8 ft (0.25 m) when mounting near the controller. It is recommende to use only the provided RJ11 cable. Do not use Hot plug.

1. Make sure the controller is already mounted on the panel door.
2. Insert a flat blade screwdriver at the slots on the bottom of the HMI assembly and push in.
3. Use the screwdriver as a lever and leverage the display unit from the base unit as shown in below figure.
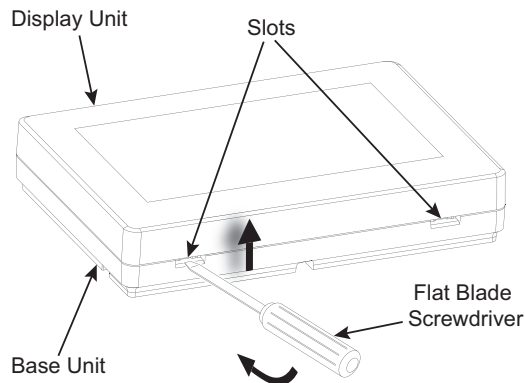

4. Remove the center one or one of the knockout holes available on the base unit according to the RJ11 cable routing direction.
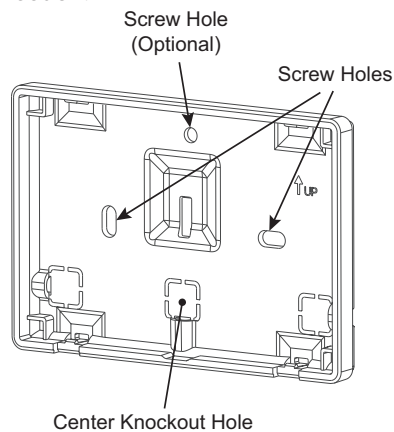

5. Hold the base unit along the panel door, level, and mark three drilling locations and an RJ11 cable passage cutout location. The top screw hole location is optional and can be used to prevent the base unit from shifting due to vibration of the panel door.
6. Remove the base unit from the wall. Drill the holes using a 4 mm (5/32") drill bit at the marked locations for the screw mounting holes.
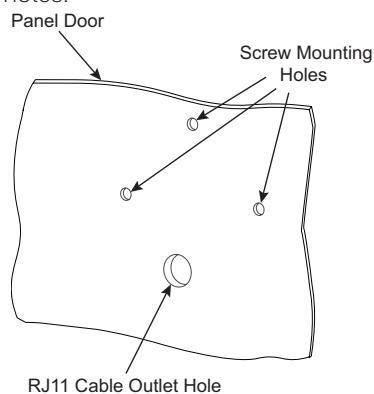

7. Make a circular cutout at the marked location for the RJ11 cable passage.
8. Install a grommet in the RJ11 cable hole on the panel door.
9. Hold the base unit along the panel door so that the mounting holes are aligned.
10. Insert the supplied screws at the two bottom holes as shown in the below figure.
11. Hold the screw from the front, and attach the washer and the nut on the backside of the panel.
12. Secure the nut with a wrench and tighten the screw using a screwdriver.
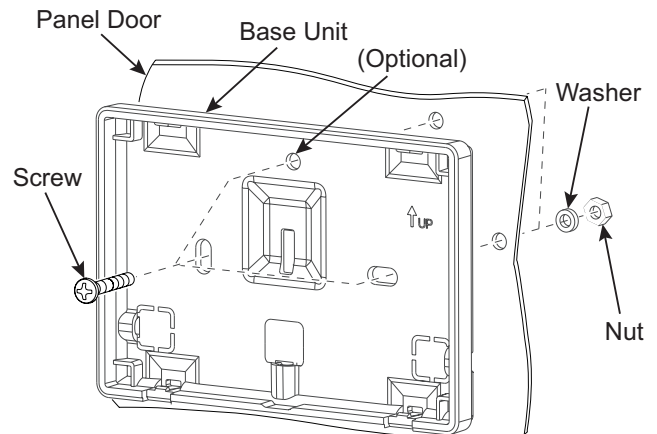
13. If required, install the screw, washer, and nut on the upper hole as described in the previous steps.
14. Connect the RJ11 cable end to the controller and pass the other end through the base unit opening as shown in the below figure.
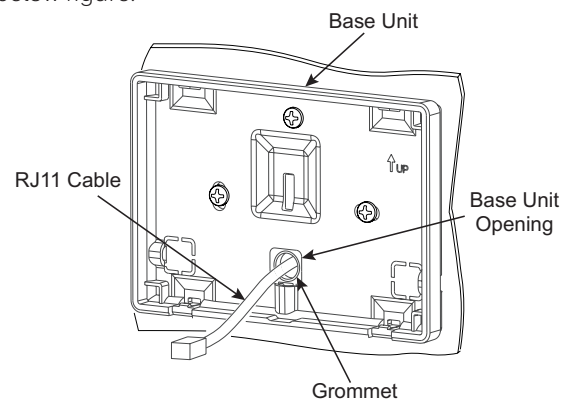
15. Connect the RJ11 cable end to the display unit.
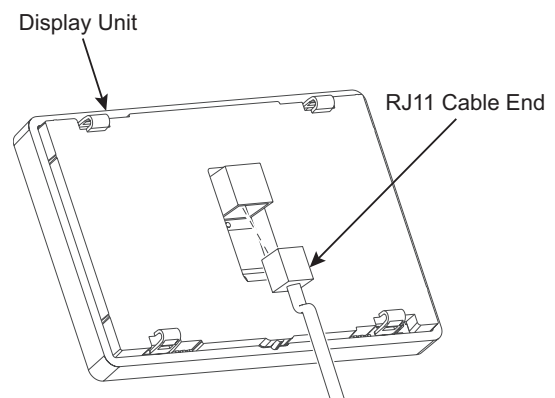
16. Attach the display unit onto the base unit.

HMI WITH PANEL DOOR/WALL BASE

REMOVING THE HMI WITH PANEL DOOR/WALL BASE FROM A PANEL DOOR OR WALL

1. Insert a flat blade screwdriver at the slots on the bottom of the HMI assembly and push in.
2. Use the screwdriver as a lever and leverage the display unit from the base unit.
3. Disconnect the RJ11 cable from the display unit.
4. Disconnect the RJ11 cable from the controller.
5. Hold the base unit and unscrew the fasteners.
6. Detach the base unit from the Panel door/wall.

CHANGING THE HMI WITH DIN RAIL BASE FROM A PANEL DOOR OR WALL

1. Remove the HMI from the panel door/wall base, follow the steps in the section "Removing the HMI with Panel Door/Wall Base from a Panel Door or Wall" on page 10
2. Mount the HMI to a Din rail base, follow the steps in the section "Mounting the HMI with din rail base on a din rail" on page 4

WIRING
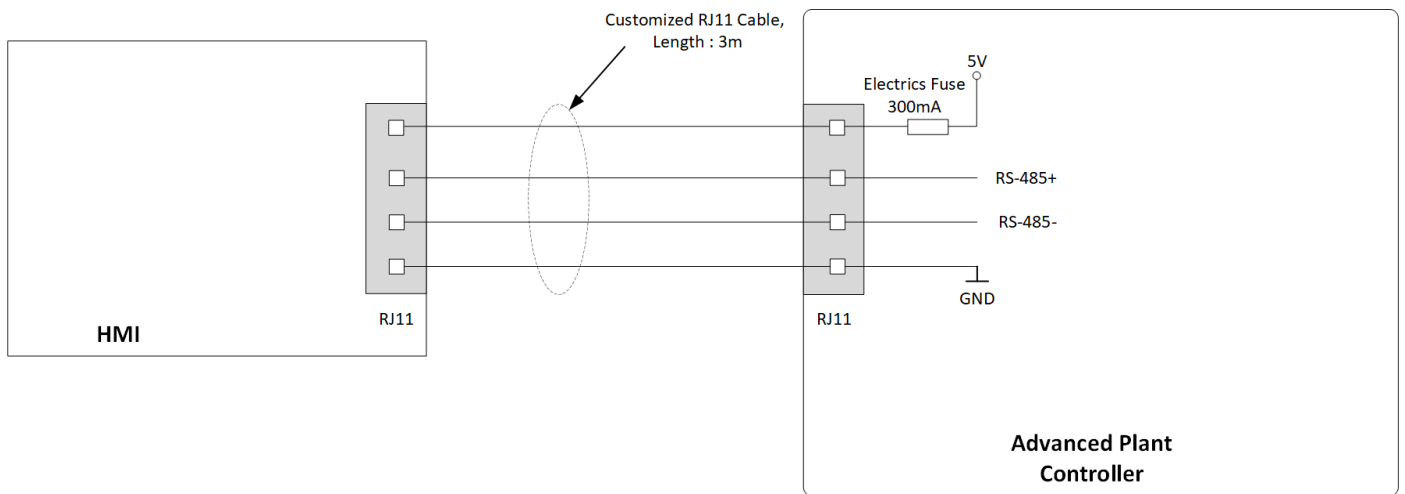
NOTE: Maximum length of RJ11 cable is 9.84 ft (3 m).

Honeywell