MPC-M10/MPC-M20/MPC-M25
MPC Media Presentation Controller

MPC
Media Presentation Controller

DO Install the Device

The MPC-M10, MPC-M20, and MPC-M25 media presentation controllers are designed to install into a standard 3-gang electrical box. After the facility control network has been installed and verified, use the following procedure to install the device.

NOTE: The MPC-M10, MPC-M20, and MPC-M25 are functionally similar, and they share the same installation and programming process. For simplicity within this guide, the term "MPC device" is used except where noted.

Attach the Mounting Plate into an Electrical Box

1. Turn the system power off.

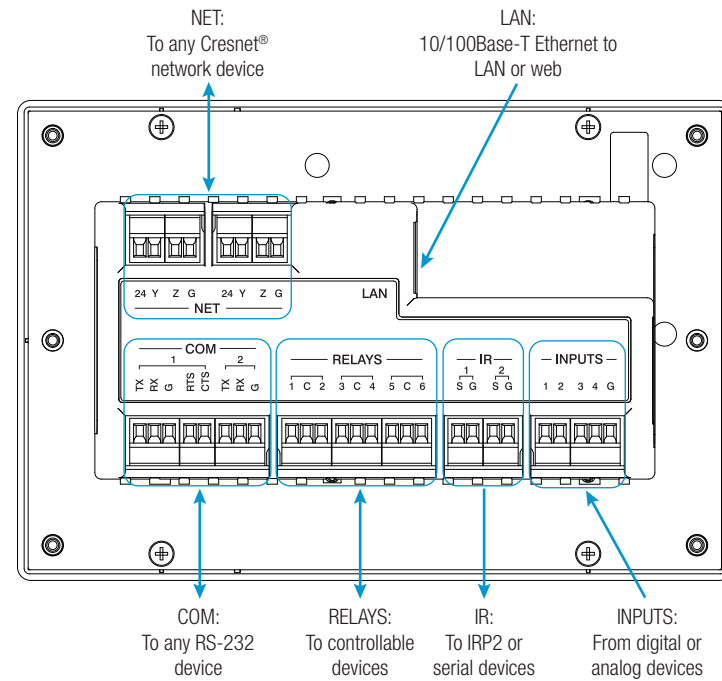2. Use the four included 6-32 x 3/4" screws to attach the mounting plate to the electrical box.

Ground wire

TOP

Screws (4): 6-32 x 3/4"
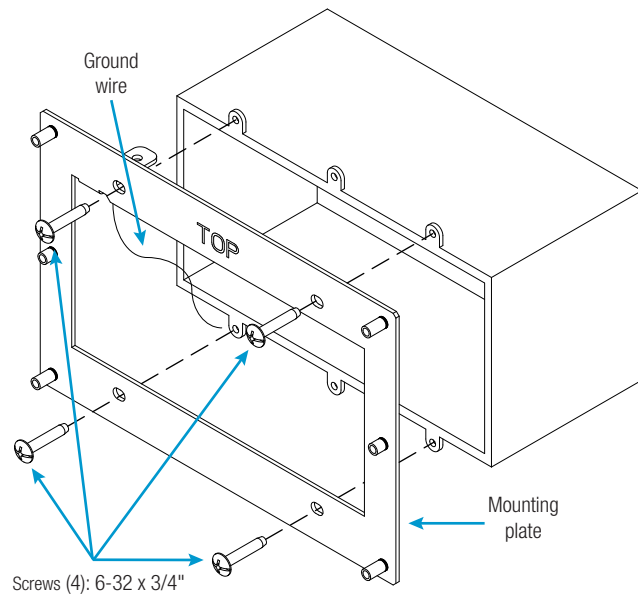
Mounting plate

3. Attach the mounting plate ground wire to an earth ground.

   NOTE: Ensure the unit is properly grounded.

Connect the Device

Route all appropriate cables through the electrical box, and then attach them to the rear of the MPC device.

NOTE: All cable connections must be made prior to attaching the MPC device to the mounting plate.

NET:
To any Cresnet® network device

LAN:
10/100Base-T Ethernet to LAN or web

24 Y Z G   24 Y Z G   LAN
NET

COM   RELAYS   IR   INPUTS
1   2   1   2
TX RX G RTS CTS TX RX G   1 C 2 3 C 4 5 C 6   S G S G   1 2 3 4 G

COM:
To any RS-232 device

RELAYS:
To controllable devices

IR:
To IRP2 or serial devices

INPUTS:
From digital or analog devices

When making connections to the MPC device, note the following:

- Use Crestron® power supplies for Crestron equipment.
- Apply power after all connections to the device have been made.
- The included power cable cannot be extended.

NOTE: COM 2, IR 2, and RELAYS 3, 4, 5, and 6 are found only on the MPC-M25.

NOTE: When connecting the included power supply to the NET connector on the unit, make sure the lead with the white stripes connects to the terminal marked "24." The other lead connects to the terminal marked "G."
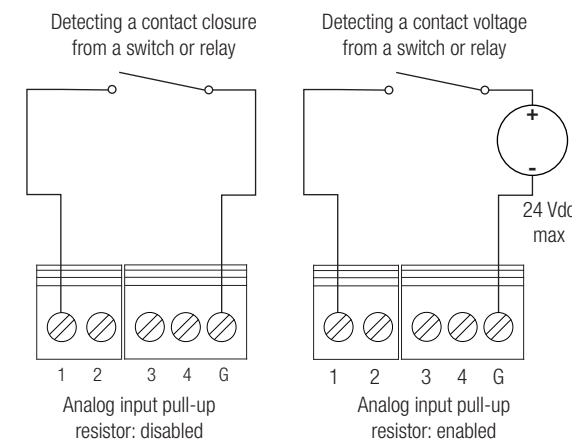
DO Check the Box

QUANTITY	PRODUCT	COLOR	PART NUMBER
2	Connector, Butt Splice	Red	2021836
1	Plate, Mounting		4506280
1	Power Cord, 6' 7" (2 m)		2001134
1	Power Pack, 24 Vdc 0.75 A, 100-240 Vac		2045852
2	Screw, 4-40 x 1/4", Pan Head, Phillips		2007156
4	Screw, 6-32 x 3/4", Truss Head, Combo		2009211
1	Tool, 1/16" Allen Wrench, L-shape, 3" Blade		2022867
For MPC-M10-W, MPC-M20-W, MPC-M25-W only			
1	Labels, Sources, 100 Piece Set	White	4509400
1	Labels, Actions, 100 Piece Set	White	4509402
4	Screw, 4-40 x 1/2", Button Head, Hex		2021396
For MPC-M10-B-T, MPC-M20-B-T, MPC-M25-B-T only			
1	Labels, Sources, 100 Piece Set	Black	4509401
1	Labels, Actions, 100 Piece Set	Black	4509403
4	Screw, 4-40 x 1/2", Button Head, Hex	Black	2021395
For MPC-M10-W and MPC-M10-B-T only			
1	Front Panel and Label, 10 Button	White	4506184
1	Front Panel and Label, 10 Button	Black	4506185
For MPC-M20-W and MPC-M20-B-T only			
1	Front Panel and Label, 20 Button	White	4506180
1	Front Panel and Label, 20 Button	Black	4506181
For MPC-25-W and MPC-25-B-T only			
1	Front Panel and Label, 20 Button	White	4506178
1	Front Panel and Label, 20 Button	Black	4506179

Depending on the application, the MPC device INPUTS can be wired multiple ways. Refer to the following diagrams when wiring INPUTS.
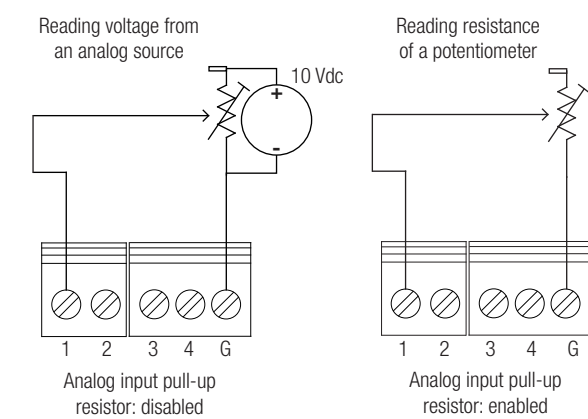
WARNING: Incorrect wiring may damage the MPC device.

NOTE: The settings for the pull-up resistor are specified in the SIMPL Windows program. For more information, refer to the SIMPL Windows help file.

Input Wiring Diagrams - Digital Input Function

Detecting a contact closure from a switch or relay

1 2   3 4 G
Analog input pull-up resistor: disabled

Detecting a contact voltage from a switch or relay

24 Vdc max

1 2   3 4 G
Analog input pull-up resistor: enabled

Input Wiring Diagrams - Analog Input Function

Reading voltage from an analog source

10 Vdc

1 2   3 4 G
Analog input pull-up resistor: disabled

Reading resistance of a potentiometer

1 2   3 4 G
Analog input pull-up resistor: enabled
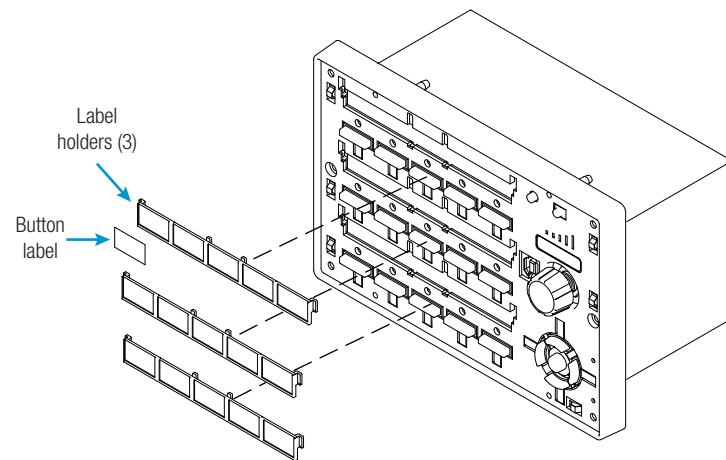
Attach the MPC Device to the Mounting Plate

Use the two included 4-40 x 1/4" screws to attach the MPC device to the mounting plate.

CAUTION: Excess wire that is pinched between the MPC device and the mounting plate could short out. Make sure that all excess wire is completely contained inside the electrical box and not between the box and the device.

Screws (2): 4-40 x 1/4"
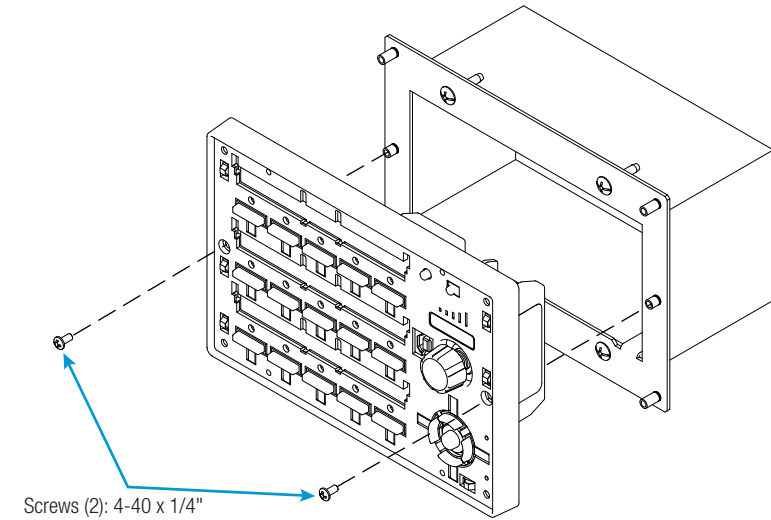
## Attach and Label the Buttons

1. Attach the three label holders by placing them over their respective slots and sliding them downward into position.

2. Attach the included labels to the MPC by affixing them to their appropriate positions on the label holders. Optional custom-engraved labels for the MPC device can be ordered separately by downloading the Crestron Engraver software from www.crestron.com/software.

Label holders (3)

Button label

Attach the Face Plate to the MPC Device

Use the four included 4-40 x 1/2" screws and the included 1/16" Allen wrench to attach the face plate to the MPC device.

NOTE: If programming the device using the COMPUTER (USB) port, detach the face plate by removing the four 4-40 x 1/2" screws to access the port.

Screws (4): 4-40 x 1/2"
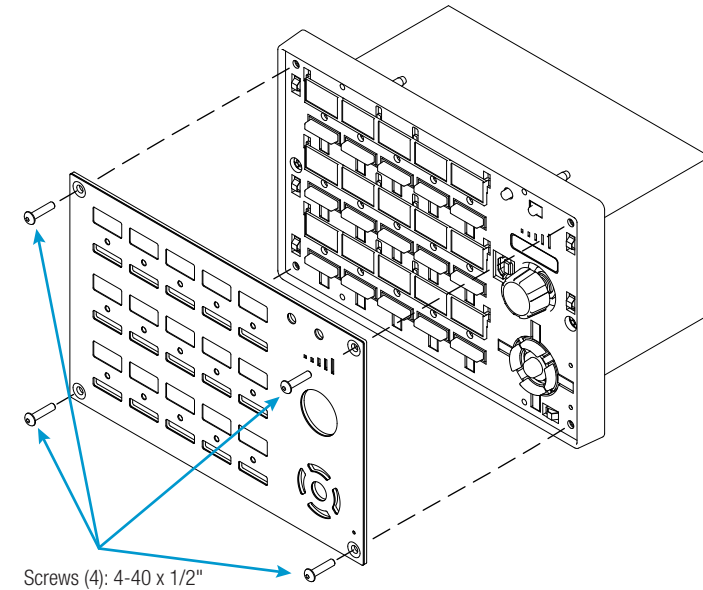
DO Program the Device

Use Crestron Toolbox™ software and one of the following communciation methods to program the MPC device. Refer to the embedded Crestron Toolbox software help file for more information.

- **USB:** Perform any necessary programming through the device's COMPUTER (USB) port prior to attaching the front panel to the MPC device.

VOLUME

MPC-M20

Computer (behind front cover): To USB computer console port
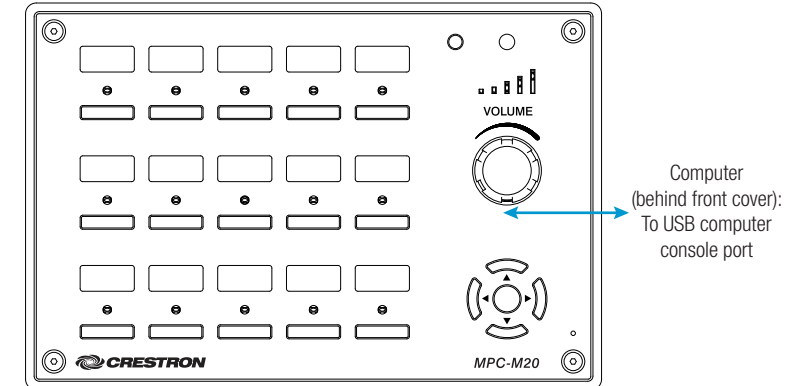
- **TCP/IP:** Perform any necessary programming over an Ethernet connection through the device's LAN port.

MPC-M10

MPC-M20

DO Learn More

Visit the website for additional information and the latest firmware updates. To learn more about this product, use a QR reader application on your mobile device to scan the QR images.

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MPC-M25

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Specifications subject to change without notice.