





OmniPoint





Please ensure Gateway is installed and on-line before you begin the installation.



Please ensure that account is created and property configured before you begin the installation.

CellGate Support: 972-231-1999, opt. 2



Table of Contents		Dry Contact, Normally Open	16
Overview	3	Dry Contact Relay, Normally Closed Dry Contact	16
Download CellGate App	3	Dry Contact, Normally Closed	16
EPM Set Up	3	Wiegand Wiring	17
Wiring Instructions	3	LED Input Wiring	17
Relevant Terms	3	Input Status	17
Shipping Contents	4	REX Input Wiring	17
Omnipoint with Internal Antenna	4	LED Signals	18
		Download CellGate App	19
Shipping Contents	5	Enrollment on App Side	19
Omnipoint with External Antenna	5	Registration with Dealer App	19
Required Purchase	6	iPhone	19
Outdoor and Indoor External Antenna Installs	6	Android	19
Outdoor Installation	7	Register and Test	21
Omnipoint with External Antenna	7	Testing	26
Outdoor Installation	9	Activate Relay	26
Omnipoint with Internal Antenna	9	Test Wiegand	27
Indoor Installation	10	Request to Exit	28
Omningint with External Antonna	10	Troubleshooting Omnipoint	29
Omnipoint with External Antenna	10	Activate Relay	30
Indoor Installation	12	Wiegand Testing	31
Omnipoint with Internal Antenna	12	Request to Exit	32
Wall Mount	12		
Flush Mount	13		
Wiring Diagram	14		
Wet Connection	15		
Requires 12 V Trigger Power	15		
Wet Contact Relay, Normally Open	15		
Requires Constant 12 V	15		
Wet Contact Relay, Normally Closed	15		
Dry Contact Relay, Normally Open Dry Contact	16		





Total Property Wireless Access

by) (cellqate

Overview

The Omnipoint Entry Point Module (EPM) enables wireless communications from one gateway to many EPMs. Different views of the installed EPM are below.



Download CellGate App

To use the Omnipoint device, you must download the CellGate app, which allows you to manage Omnipoint from your smartphone.

For iPhones, scan this QR code to download the CellGate app from the App Store.

For Androids, scan this QR code to download the CellGate app from the Google Play Store.





Alternatively, search for "Cellgate" in the App or Play Store, and download the CellGate app.

EPM Set Up





Wiring Instructions

Refer to the definitions below as you set up Omnipoint.

Relevant Terms

Main Power: The main power input for the circuit; 12 V DC or 24 V AC. Omnipoint is not polarity sensitive for incoming power.

Wet Relay Connector: Power is supplied by the main power source. The wet relay outputs the same voltage as input, e.g., 12 V DC in, 12 V DC out or 24 V AC in, 24 V AC out.

Dry Relay Connector: A source other than the main power source supplies power. When closed, current flows through the contact. When dry contact is open, no current flows through the contact.

Wiegand Connection: The 26-bit Wiegand circuit reads the user's credentials and determines whether to allow or deny access. Power output is always 12 V DC or 24 V AC.

Input 1: Gate or door status.

Input 2: Gate or door status; includes Request to Exit (REX) built in by default.





Shims: 2



Shipping Contents

Omnipoint with Internal Antenna

Part #: OP EPM DG

Flathead Screws: 4



Security Screws: 4





13-pin Connector: 1



3-pin Connector: 1



2-pin Connector: 1



Omnipoint EPM: 1









Shipping Contents

Omnipoint with External Antenna



External antenna: 1



Connect the external antenna **before** you connect the power.

Flathead Screws: 4



Connector Cable: 1



Security Screws: 4



13-pin Connector: 1



Shims: 2



3-pin Connector: 1



2-pin Connector: 1



Omnipoint EPM: 1







Required Purchase

Outdoor and Indoor External Antenna Installs

You must purchase an external box if you plan to install Omnipoint outdoors or if you install Omnipoint with and external antenna indoors.



"2-Gang Gray Weatherproof Box with Four 3/4 in. and Three 1/2 in. Holes" Home Depot Product Information:

- Internet #300851103
- Model #WDB750PG
- Store SKU #497014
- Home Depot Product Link



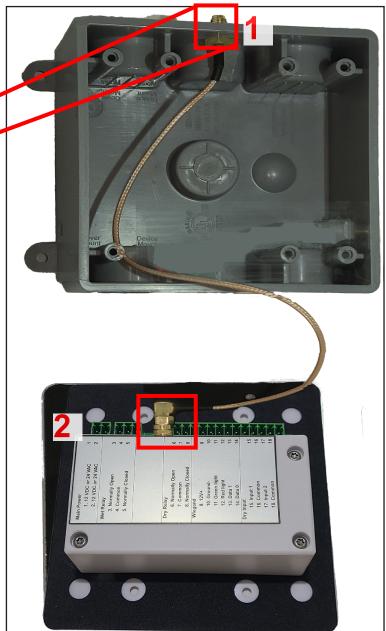


Outdoor Installation Omnipoint with External Antenna

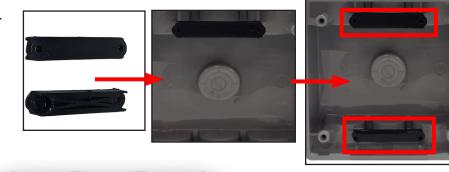
1. Attach the cable to the external box.



2. Attach the other end of the cable to the Omnipoint EPM.

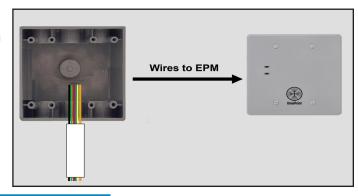


- 3. Attach shims to box to seal box.
- 4. Run the wires into the double-ganged box and wire the EPM.





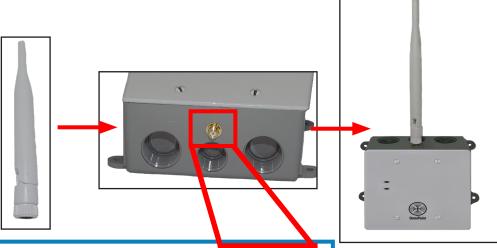
5. Attach the Omnipoint EPM to the external box with either flathead or security screws, based on your preference.



NOTE You must weather-proof the antenna and cable connections. 3/4 inch conduite fitting recommended.

6. Attach antenna to box. With the external box on its side, locate the antenna stud as pictured.





NOTE

To assemble correctly, the nut and washer must be attached at this location on the external box.





Connect the external antenna *before* you connect the power.



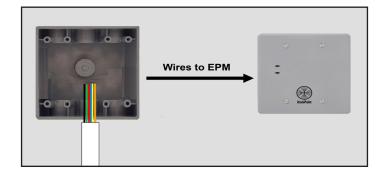
Outdoor Installation

Omnipoint with Internal Antenna

1. Attach shims to box to seal box



2. Run the wires into the double-ganged box and wire the EPM.



3. Attach the Omnipoint EPM to the external box with either flathead or security screws, based on your preference.



NOTE

For outdoor installation, properly seal cable connections. 3/4 inch conduite fitting recommended.

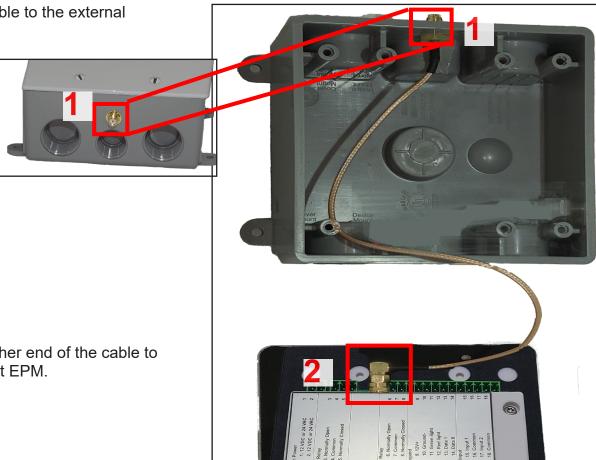


Indoor Installation

Omnipoint with External Antenna

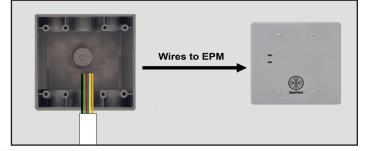
For an indoor installation with an external antenna, you have several options. You can run cable for antenna up within the wall. You can also mount the box and allow the antenna to remain visible.

1. Attach the cable to the external box.



2. Attach the other end of the cable to the Omnipoint EPM.

3. Run the wires into the doubleganged box and wire the EPM.





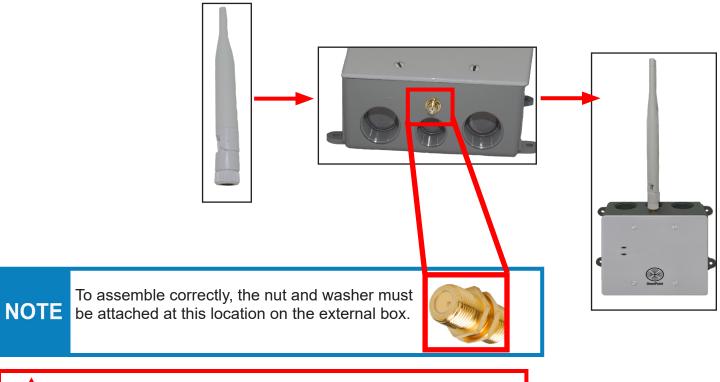




4. Attach the Omnipoint EPM to the external box with either flathead or security screws, based on your preference.



5. Attach antenna to box. With the external box on its side, locate the antenna stud as pictured.



1

Connect the external antenna before you connect the power.

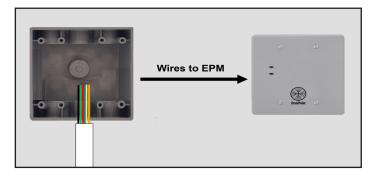


Indoor Installation

Omnipoint with Internal Antenna

Wall Mount

1. Run the wires into the double-ganged box and wire the EPM.



2. Attach front to box with screws.



3/4 inch conduite fitting recommended.





Flush Mount

For indoor installation with internal antenna, you can choose to install the Omnipoint device in the wall or mount the box.

 Make a hole in the wall for your Omnipoint device.



3. Place the Omnipoint device in the wall.



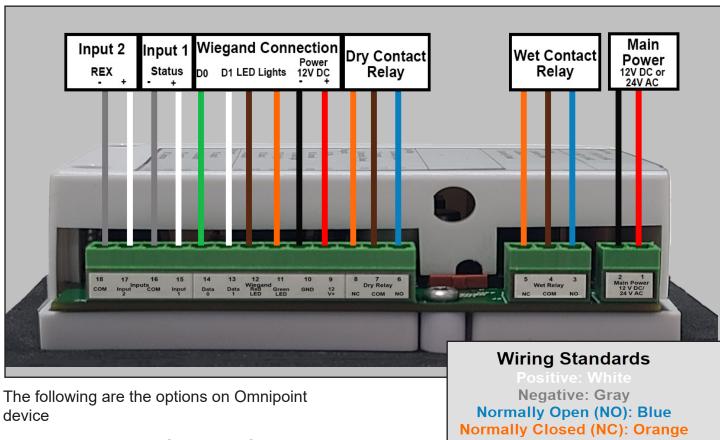
NOTE

This is a double-ganged wall mount box.



Wiring Diagram

The parts of the EPM are identified below.



Main Power: 12 V DC or 24 V AC

Wet Relay:

NC: Normally Closed

· COM: Common

NO: Normally Open

Dry relay:

NC: Normally Closed

∘ COM: Common

NO: Normally Open

Wiegand inputs:

D0 and D1

Red and Green LED

∘ Ground (GND), 12 V

Positive: White
Negative: Gray
Normally Open (NO): Blue
Normally Closed (NC): Orange
Common: Brown
Positive Power (when live): Red
Ground: Black
Wiegand 1: White
Wiegand 0: Green



The Omnipoint device accepts 12 V DC or 24 V AC.

Input 1

Gate or door status

Input 2

Gate or door status

Request to exit (REX)

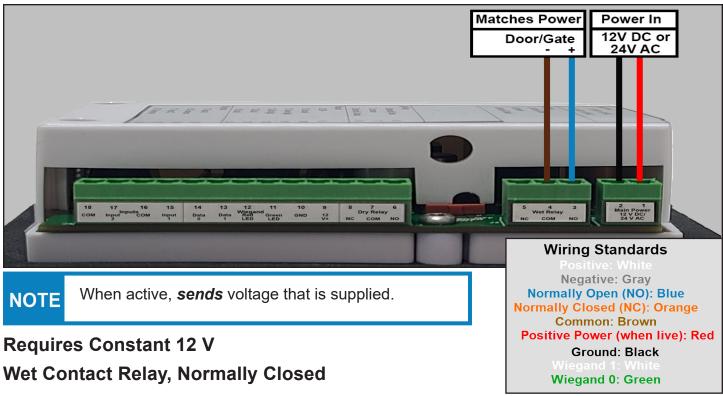


Wet Connection

Requires 12 V Trigger Power

Wet Contact Relay, Normally Open

Voltage is provided when the relay activates. Outgoing power is determined by main power (12V DC or 24V AC).



Voltage is removed when the relay activates. Outgoing power is determined by main power (12V DC or 24V AC).



NOTE

When active, **removes** voltage that is supplied.





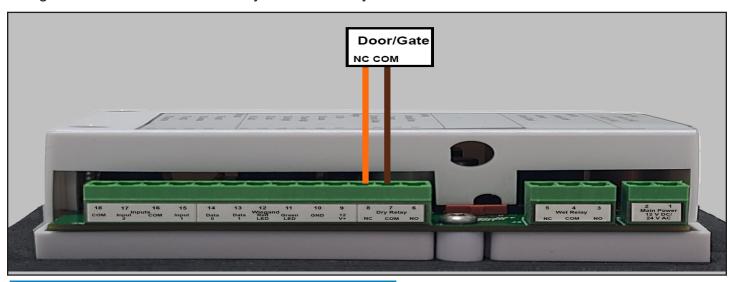
Dry Contact Relay, Normally Open Dry Contact Dry Contact, Normally Open

The gate or door receives continuity when the relay is active.



Dry Contact Relay, Normally Closed Dry Contact Dry Contact, Normally Closed

The gate or door receives continuity when the relay is at rest.



NOTE

When active, *removes* continuity.

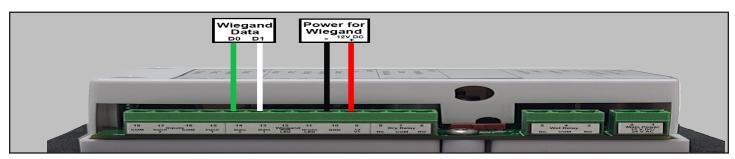




Wiegand Wiring

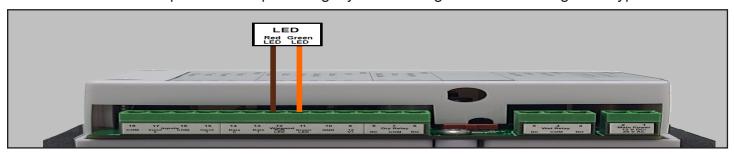
See below for an example of Wiegand wiring.

NOTE The Wiegand power only provides 12 V DC.



LED Input Wiring

See below for an example of LED input wiring if you are using LED for the Wiegand keypad.



Input Status

Status sensor tells system whether gate/door is open or closed









LED Signals

The LED lights on the Omnipoint device signal whether and how the device has connected with the server and the Gateway. The green and red LED lights may flash quickly, slowly, or hold steady. See below for a breakdown of the LED lights and what they mean.



No lights indicate that power is not on; the system is booting up. Please allow 60 seconds for the system to boot up.



A red flash indicates that the device has **no** connection to the gateway.



A quick green flash indicates the device has **no** connection with the server.



A slow green flash indicates the device has a connection with the server.



A flashing green light and solid red light indicate you have an active connection and the relay is active.

Download CellGate App

If you have not yet, download the CellGate app to your smartphone. Alternatively, search for "Cellgate" in the App or Play Store, and download the CellGate app.



iPhone





Enrollment on App Side Registration with Dealer App

1. Open Cellgate Installer Control and login. If you do not have a dealer log in, contact CellGate Customer Support at 1-855-694-2837.





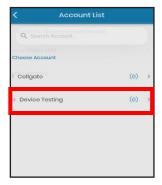
3. Tap Omnipoint EPM.





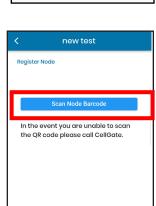


4. Tap Device Testing.



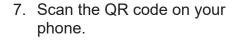
Installation Location

new test



5. Tap the property.

6. Tap Scan Node Barcode.



The QR code is located on the side of your Omnipoint EPM, as shown.









A message displays that the process completed successfully.

8. Tap Configure & Test.

Register and Test

1. Verify that your device is functioning properly. Tap Yes.

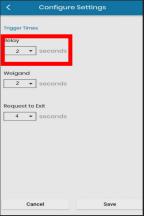
Trigger times are defined below:

- · Relay time: the amount of time relay stays open when activated
- · Wiegand: how long relay remains active from Wiegand transaction
- · Request to exit: how long relay remains open after request to exit
- 2. Tap Set Trigger Times.
- 3. Tap Relay times.





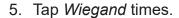


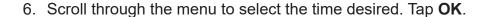




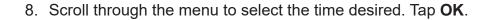


4. Scroll through the menu to select the time desired. Tap OK.























9. Tap Save.



Re-arm times are defined below:

- Re-arm Wiegand: how may times the same code can be used within the set number of seconds
- Input 1: how often the input switches states; how often input 1 changes are logged
- Input 2: how often the input switches states; how often input 2 changes are logged
- 11. Tap Re-arm Wiegand time.

12. Scroll through the menu to select the time desired. Tap **OK**.













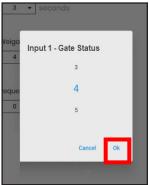
13. Tap Input 1 - Gate Status.

14. Scroll through the menu to select the time desired. Tap **OK**.

15. Tap Input 2 - Request to Exit.

16. Scroll through the menu to select the time desired. Tap **OK**.













17. Tap **Save**.

18. Tap **Push Changes to Devices**.







Testing

To complete the install, test your Omnipoint to verify that it works correctly. Follow the workflow below to test each Omnipoint function. If a test fails, troubleshoot that step.

Activate Relay

If the relay activates, the gate or door opens

1. Tap **Send Command** to activate the relay.



2. Tap **Yes** to confirm the command and move to the *Gate Status* screen.

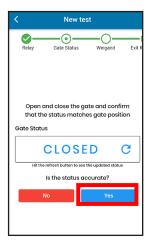


3. Verify the Gate Status. If Omnipoint is working correctly, *Gate Status* displays as either *Opened* or *Closed*.

A *Gate Status* of *Unknown* indicates the system is not receiving data from the door status sensor.

If you don't use gate status, click **Skip**.

4. Tap Yes to move to Wiegand testing.









Test Wiegand

In this section, you verify that the Omnipoint device reads Wiegand codes correctly.

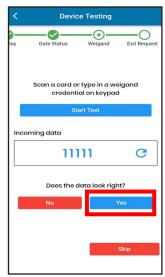
1. Tap **Start Test**. To test, scan a RFID card or enter a Wiegand code.



2. Verify that the Wiegand information you entered displays. An incorrect or blank code generally indicates a wiring problem.



3. Tap **Yes** to test *Exit Request*.







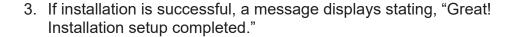
Request to Exit

The app prompts you to send a Request to Exit to verify the process is working correctly.

1. A popup asks if you have a request to exit. Tap Yes.

2. Verify the Gate Status. Tap Yes if the command worked.

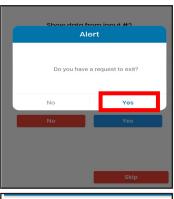
The *Gate Status* should display *Open* or **Closed**. If the *Gate Status* is *Unknown*, the request to exit did not work and the system is not receiving data from the Omnipoint device.

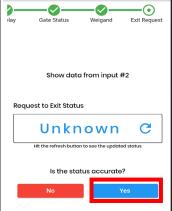


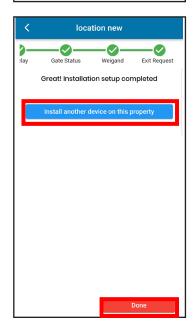
If you want to install another device, tap **Install another device on this property**.

If you tap **Done**, you are returned to *Account Selection* on the dashboard.

Testing is complete. You can retest a function at any time: navigate to the install location to test again.









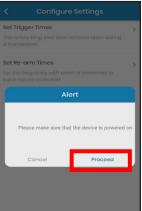
Troubleshooting Omnipoint

After pushing changes to the Omnipoint device, you may encounter an error in which the device is not communicating.

1. Tap Push Changes to Devices.

2. Tap **Proceed** on the alert screen reminding you to ensure the device is powered on.





NOTE This message only displays if the device is off-line.



The app walks you through the testing process. In general, as you test each function, if the function works correctly, you'll select **Yes** in the app. If you select **No**, the app shows you information to help you troubleshoot the problem.

Activate Relay

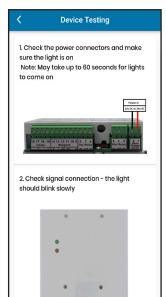
1. Tap **Send Command** to activate the relay.

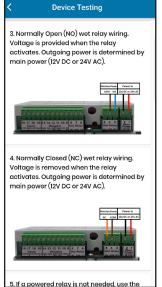


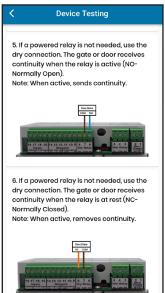
2. If the command does not work, tap **No** to open the wiring document. The wiring diagram displays.



3. Refer to the diagram and correct any wiring problems, then retest.











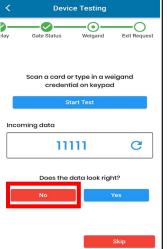


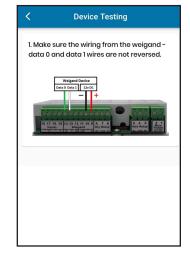
Wiegand Testing

- 1. Tap **Start Test** to test the Wiegand device.
- 2. Verify Wiegand information.

3. If the Wiegand information is incorrect, or if no Wiegand information displays, tap **No**. The Wiegand wiring diagram displays.







4. Refer to this diagram to correct wiring problems and retest.



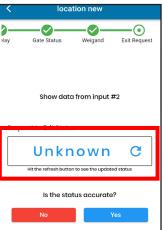
Request to Exit

1. A popup asks if you have a request to exit. Tap Yes.

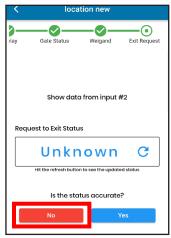


2. Verify Gate Status.

If the *Gate Status* is *Opened* or *Closed*, the request to exit worked. If the *Gate Status* is *Unknown*, the Request to Exit failed.



3. Tap ${f No}$. The Request to Exit wiring diagram displays.



4. Refer to the Request to Exit wiring diagram and correct wiring problems. Retest Request to Exit.





<u>32</u>







If you tap **View Input Wiring**, input wiring examples display.

