



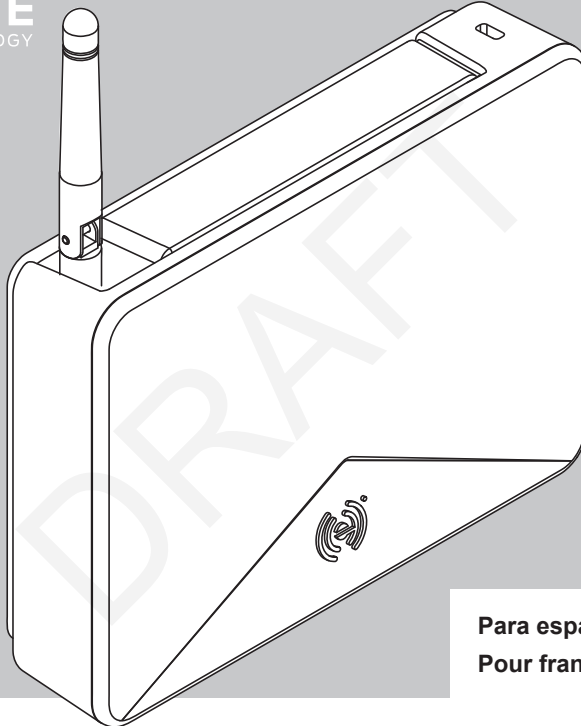
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ENGAGE™ Gateway

Model GWE2

Installation Instructions
User Guide



Para español, pág. 21.

Pour français, voir la page 42.



For the latest Installation Instructions and User Guide for the ENGAGE™ Gateway and all other ENGAGE enabled devices, visit:

Para obtener las últimas Instrucciones de Instalación y la Guía del Usuario para la Gateway ENGAGE y otros dispositivos provistos por ENGAGE, visite el sitio:

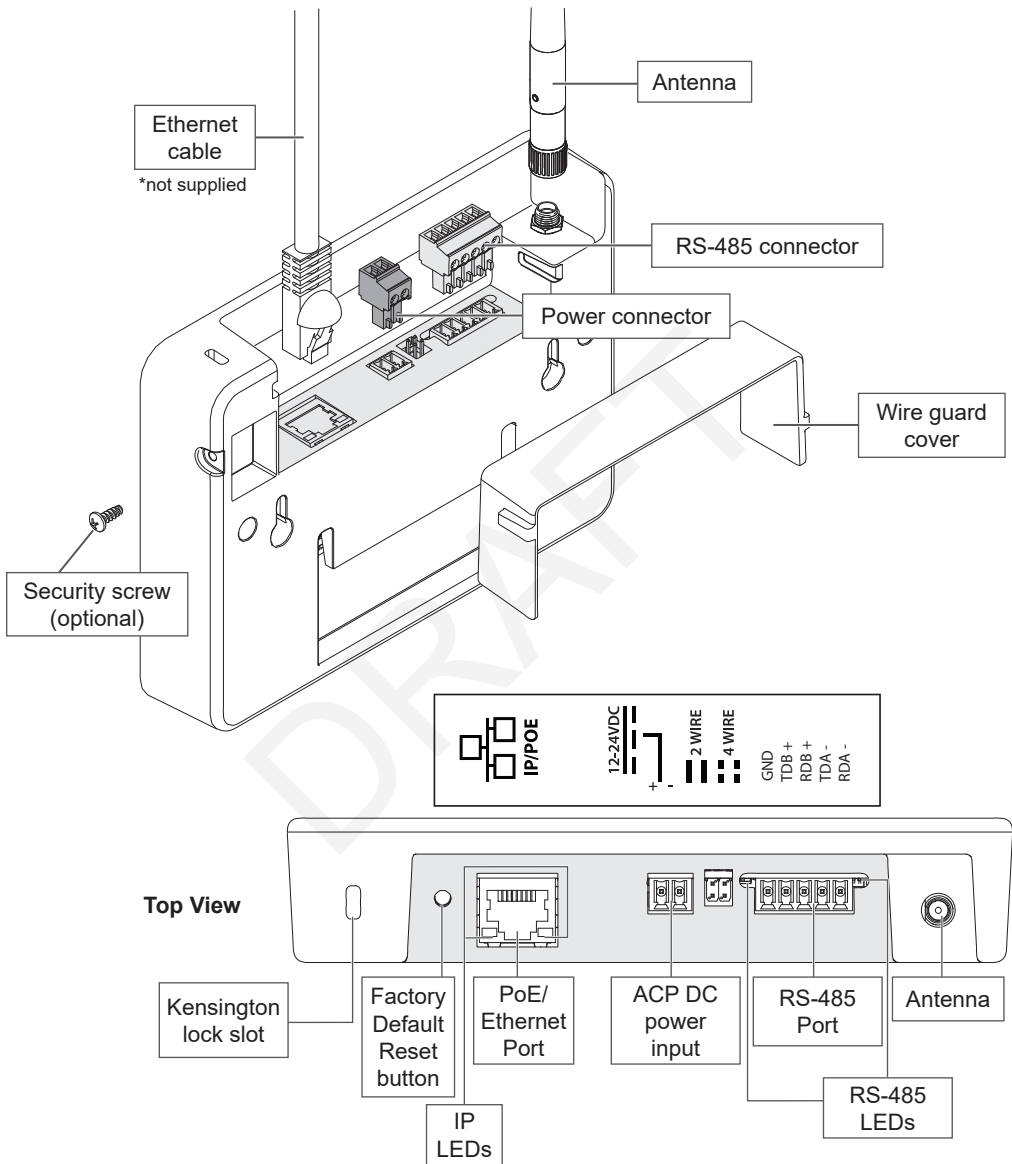
Pour les instructions d'installation et le manuel de l'utilisateur les plus récents pour la Gateway d'ENGAGE et tous les autres dispositifs actionnés par ENGAGE, rendez-vous à l'adresse :

us.allegion.com/gateway

Table of Contents	General Architecture
General Architecture	2
Power Status	
Communication Status	
Port Guide	3
Installation Instructions	4
Overview	
Create a new ENGAGE account	
Install and commission locks	
Determine the Gateway location	
Wi-Fi access point placement	
Commissioning and Linking	5
Commission the Gateway	
Host/Panel communication with Gateway	
Linking locks/devices to Gateway	
Mounting Options	8
Power Options	9
Access Control Panel Connections	10
Typical Gateway to ACP wiring diagrams	12
Cable/Wire Specifications	14
Factory Default Reset (FDR)	14
LED Indicator Guide	15
Troubleshooting	16
FCC Statement	19
	The ENGAGE Gateway can work in two modes. RSI Mode In this mode, the Gateway communicates with an access control panel (ACP) and alliance partner access control software to control the system. Power is supplied by the ACP power connector (12 or 24V). Data is supplied by either a 2- or 4-wire RS-485 connection from the ACP. IP Mode In this mode the Gateway communicates to an access control server over IP using an ethernet cable. The Gateway must be recommissioned to switch between the following modes of IP operation: - Client mode: the Gateway and access control server reside within the same network. - Host mode: the access control server resides outside of Gateway's local network. The Gateway will communicate to the access control server via websockets. The access control server must have websockets configured before the Gateway is able to connect. Power Status Power status is indicated by the status LED located on the front of the ENGAGE Gateway. To see the power status LED location, refer to the LED Indicator Guide on page 15. Communication Status When the Gateway is configured to communicate with an RS-485 access control panel, the transmit and receive status is indicated with two LEDs, located on either side of the RS-485 connector. When the Gateway is configured to communicate with an IP-based host over ethernet, the status of the LAN link is indicated on the ethernet port of the Gateway.

Port Guide

Powered via 2-Wire DC or PoE only. No external power adapter provided.



Installation Instructions

Overview

1. Create an ENGAGE account and site within that account. Identify access control software you will be using at that site (see below).
 2. Install and commission locks/devices with the ENGAGE mobile application. Make sure the locks/devices are commissioned into the appropriate site.
 3. Commission the Gateway and link devices to begin the Gateway install setup.
- ① **Note: The Gateway should not be mounted yet. This step is to determine if the Gateway location will give a reliable connection to linked devices before mounting (see Determine the Gateway location on page 4).**
4. After determining the proper Gateway location, mount and select a Gateway power option (pg. 9) and wire the Gateway to the host or ACP. See Mounting Options on page 8 and Typical Gateway to ACP wiring diagrams on page 12.
 5. Confirm that the Gateway is communicating with the access control host or access control panel. See Host/Panel Communication with Gateway on page 5.

Create a new ENGAGE account

An account is required to use the ENGAGE cloud based web and mobile tools. If you do not have an account, create an ENGAGE account with the ENGAGE mobile or web application. The web app can be accessed at <http://portal.allegionengage.com>.

The mobile application is available on the App Store (iOS) or on Google Play (Android). Search for "Allegion ENGAGE." Email access will be needed to validate account.

Create a site within that account and choose the software provider you will be using from the list. (ENGAGE should only be selected if you are using the ENGAGE managed standalone solution without a Gateway.)

NOTE

Before creating the site, be sure to align with your access control software provider on their preference to manage the site. The software provider may want to create the site and invite you

to manage.

If you have access to multiple sites, you will be prompted to select the site you want to work with when you log into your ENGAGE account.

Install and commission devices/locks

Refer to the installation instructions and user guide that came with the devices/locks. Documentation for all ENGAGE enabled devices can be found at www.allegionengage.com.

- ① **Note: At a time, up to 5 devices/locks can be linked to one GWE2.**

Determine the Gateway location

Perform a site survey to ensure reliable wireless communications between the Gateway and the edge device.

- ① **Note: You will need power to the Gateway to conduct a site survey. See us.allegion.com/gateway for details on how to conduct a site survey.**

The Gateway communicates wirelessly using Bluetooth to ENGAGE enabled devices/locks. Wireless signals are diminished by walls, distance, metal objects, or barriers. Consider the following when placing the Gateway:

- The performance of wireless connectivity is highly dependent on the physical (geometry, construction materials, and furnishings) and RF environments of the install. In typical building environments, up to 30' line of sight to the door can be achieved with the 2.4GHz Bluetooth low energy.
- Do not mount the locks/devices and the Gateway on different floors. The signal will be degraded and functionality can be severely limited.
- Do not mount the Gateway on a metal surface. A separation of at least one inch must be maintained in all directions from any metal.
- Signal will not pass through metal walls or metal mesh in the walls (stucco).
- The Gateway antenna should be vertically oriented.

When planning, keep in mind that items can create interference that may reduce range. Items such as: Wi-Fi access points, metal furniture (shelving and cabinets), HVAC equipment, elevators, cellular repeaters, and microwave ovens all can cause

interference.

Do not install the gateway in a metal box or on a metal surface. Do not install the Gateway outdoors.

2.4 GHz Wi-Fi access points

To minimize RF interference from Wi-Fi access points, maximize the distance between the Gateway and the Wi-Fi access point (at least 10').

Locations and wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA 70 for U.S. and Canadian Electrical Code for Canada.

For more details on Gateway placement see us.allegion.com/gateway.

2.4 GHz Wi-Fi environments

The 2.4GHz frequency band is utilized by a growing number of products. The Gateway-to-device BLE communications require an open channel in the 2.4GHz band to transmit. If the local 2.4 GHz Wi-Fi router is not properly configured the Gateway/device's BLE communications can be hindered, preventing the system from working properly.

To properly configure a 2.4 GHz Wi-Fi router to work with the Gateway and ENGAGE device, set the router to operate on channels 1, 6, or 11. Multiple routers within the same local area should each be set to Wi-Fi channels 1, 6, or 11. Wi-Fi routers that are configured to operate on other channels (or set to "Auto Configuration") can interfere with Gateway operation. Consult the product documentation for the Wi-Fi router to set up the correct channel, or consult with a wireless expert to aid on-site planning and setup.

For more details on managing frequency bands see us.allegion.com/gateway.

Commissioning and Linking

Commission the Gateway

1. Power the Gateway.
The Gateway will go through a power on self-test. When the light on the Gateway turns solid red, it is ready to be commissioned.
2. Make sure you are working in the correct site in the mobile app.

3. Select the ENGAGE Gateway.
4. Follow the commissioning wizard. You will need to define how the Gateway will be used: IP or RSI. Consult your access control software provider for details.

Host/Panel communication with Gateway

The Gateway supports RSI and IP data connections.

IP Mode

To use the Gateway with an IP connection, use an ethernet connection for data. Consult the software alliance partner to configure the Gateway. IP communication will depend on installation site and network topology.

In normal mode, the product will limit TLS cipher suites used for Ethernet communication to only those recommended by OWASP and NIST. In compatibility mode, the product will allow legacy cipher suites to offer maximum compatibility with all systems, even those that may be using legacy cipher suites. Normal mode is the default and is the recommended mode for the highest security configuration. Installers and maintainers should review this setting to ensure the security needs of the installation.

RSI Mode

Connect ACP to the Gateway using either 2- or 4-wire RS-485 connections. Consult the software alliance provider on Gateway configurations.

The Gateway has RS-485 communication status: two LED indicators located near the RS-485 port. The green LED will flash when the Gateway detects RS-485 traffic. The red LED will flash when the Gateway is transmitting data back to the ACP. See your access control software documentation for more information.

Linking locks/devices to Gateway

The linking process for an ENGAGE Gateway and ENGAGE enabled devices may require remote linking. Align with the software partner for the preferred method. The steps to link will depend on the host configuration of the Gateway. See below for either IP mode or RSI mode link instructions:

1. Confirm that both the Gateway and locks/

- devices are commissioned into the same site.
2. Using the mobile app in the appropriate site, click on the specific Gateway you want to link to.
3. Select "Linked Devices."
4. Click the "+."

RSI only:

5. Assign the door number.
6. Put lock/device into linking mode (see "Device linking mode" on page 6).

IP Only:

7. Select the lock/device to be linked.

① **Note: If the locks/devices are being used in construction mode, they will need a factory default reset and then be commissioned into a site before they can be linked to a Gateway.**

Device linking mode (RSI Only)

NDE and LE

1. Rotate and hold the interior lever.
2. While holding the interior lever, present a credential.
3. Wait until the lock begins to flash alternating red and green, then release the interior lever. It should take approximately 8 seconds to start flashing after the credential presentation.

Device linking responses

Model	Link Mode	Lights/Beeps
NDE and LE	Success	Green flashes 4 beeps
	Fail	4 red flashes 4 beeps

RU/RM

At the RU/RM you want to link:

1. Push in and hold the latch for 2 seconds.

① **Note: For concealed latching mechanisms, the center case cover will need to be removed to activate the switching mechanism.**

2. While holding the latch in, push in and hold the push pad for 2 seconds.
3. Release both the latch and push pad. Wait for 2 seconds.
4. Push in and hold the latch.

5. After 3 seconds, the RU/RM device LED will alternate red and green, indicating an active link mode.
6. Release the latch.
7. A successful link is indicated with fast LED blinks and 4 beeps.

If linking is unsuccessful:

1. Confirm that both devices are commissioned on the same ENGAGE site.
2. Utilize the site survey process to ensure there is a reliable signal between the device and the Gateway. Check us.allegion.com/gateway for more details on a site survey.

De-linking from Gateway to connect to ENGAGE mobile app

If a direct mobile app connection to a device is required, it is necessary to de-link the device from the Gateway before a mobile app connection to the device can be established. You will have 30 seconds after de-linking to connect to the device with the mobile app. When the ENGAGE mobile app disconnects, the device will automatically establish a link with the original Gateway.

NDE/LE

1. Hold the interior lever.
2. While holding interior lever, present a credential.
3. Release the interior lever.
4. Confirm the amber LED, indicating success. You now have 30 seconds to connect to the NDE/LE lock with the mobile app.

Refreshing the "Connect" screen in the app allows the user to connect to the lock. The lock will remain available to connect for 30 seconds and then will resume attempts to reconnect with the Gateway.

RU/RM

1. Push and hold in the latch. Wait for 2 seconds.
2. While holding in the latch, push and hold in the push pad. Wait for 2 seconds.
3. Release both the latch and push pad. Wait for 2 seconds.
4. Push in and release the latch. The LED will blink amber 4 times. You now have 30 seconds to connect to the RU/RM lock with the mobile app.

CTE

Refer to the label on the inside cover of the CTE. Press and hold the Schlage button for 5 seconds to temporarily de-link from a Gateway.

Schlage Control

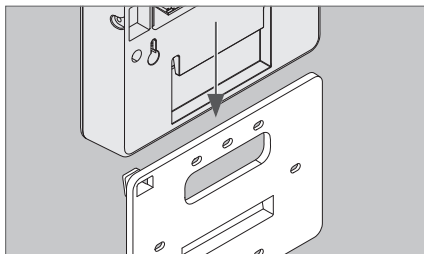
1. Present a credential.
2. Toggle the inside thumbturn 5 times
3. Confirm amber LED, indicating success.

The lock will remain available to connect for 30 seconds and then will resume attempts to reconnect with the Gateway.

Mounting Options

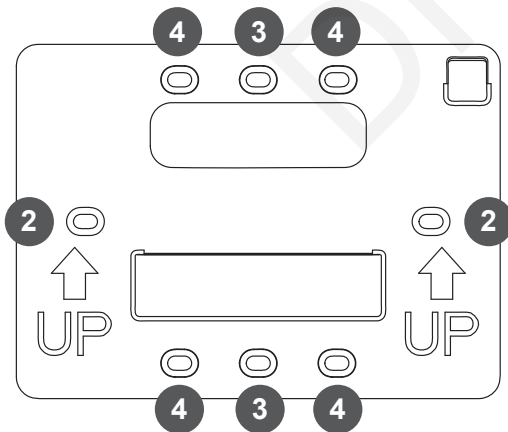
1 Remove mounting plate from Gateway.

Slide the mounting plate down to remove.



2 Choose mounting option.

There are four different mounting options.



- 1 **Desk mounting:** Does not require screws. Replace mounting plate, and place on flat surface, mounting plate down.

ⓘ **Desk mounting not evaluated by UL.**

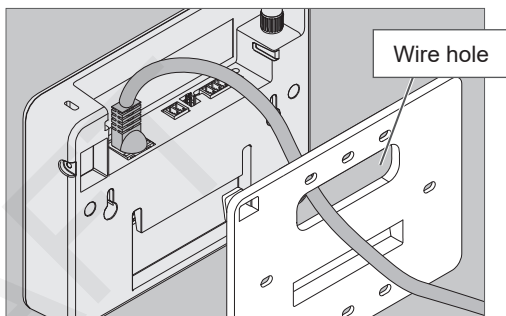
- 2 **Wall mounting:** Place the mounting plate against the wall in the desired location and mark the indicated holes with a pencil.

- 3 **Single plastic gangbox mounting:** Place the mounting plate with the holes aligned with the screw holes in the plastic gangbox.

- 4 **Double plastic gangbox mounting:** Place the mounting plate with the holes aligned with the screw holes in the plastic gangbox.

3 Route wires.

Route wires through top hole in mounting plate.



IMPORTANT

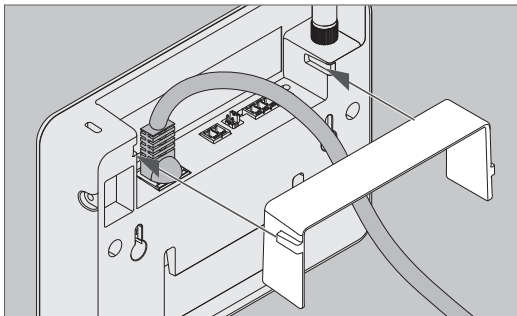
Leave some slack when routing wires through mounting plate to avoid damaging wires.

4 Secure mounting plate.

Use #6 screws to secure mounting plate to wall or gangbox. Use the holes indicated on step 2.

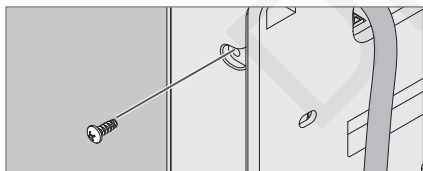
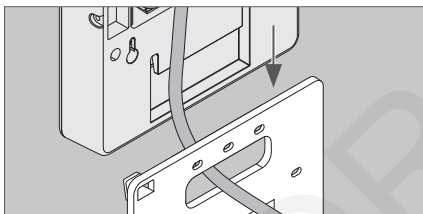
5 Install wire cover.

Align the notches on the wire cover to the Gateway, then slide straight in. **Do not pinch wires!**



6 Slide Gateway onto mounting plate.

Taking care not to pinch wires, slide Gateway straight down until it is firmly seated on the mounting plate.



Install optional security screw for added security.

Power Options

Powered via 2-Wire DC or PoE only. No external power adapter provided.

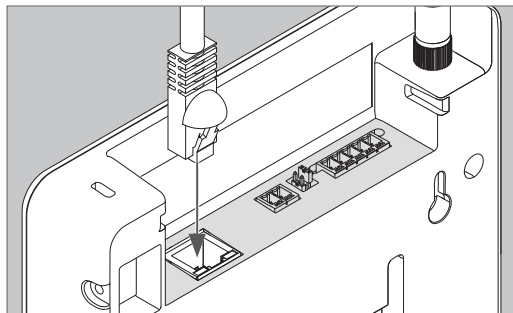
Use only 1 power option at a time!

1 Power over Ethernet (PoE)

Power is supplied through Ethernet port. Category 5e cabling required. Facility must have compatible

powered Ethernet connection.

1a Plug powered Ethernet cable into Ethernet port.



① **Note:** For the PoE switch planning purposes, the Gateway is a Class 0 powered device (PD) that requires 15.4 watts maximum power at the power sourcing equipment (PSE).

1b Check Gateway for LED indicator.

2 2-Wire DC power input

Line power is supplied by an access control panel or access control power supply. See next section for detailed instructions.

CAUTION



ESD Sensitive

Electrostatic discharge (ESD) can permanently damage sensitive electronics inside the product. Take precautions during installation to avoid introducing static charges into the system.

Disconnect the Access Control Panel power and batteries before wiring the Gateway to the panel.

WARNING

Because every Access Control Panel is different, always check the panel's instruction manual for appropriate interface wiring.

The EIA RS485 specification labels the data wires as "A" and "B", however, many RS485 products label their wires "+" and "-". Some products associate the "+" signal with "A", some with "B".

Reversing polarity will not damage either RS485 device, it will just not communicate; if it does not work, switch the connections.

- The wires from the Access Control Panel must be a shielded twisted pair with the shield grounded on the ACP end.
- For compliance with UL 294/ULC 60839-11-1, product must be used with a UL 294/ULC 60839-11-1 Listed Access Control Panel or unit, respectively.
- When Gateway is configured to use RSI protocol, care should be taken that RSI cabling is only run in secure areas of the building. Installers and maintainers should inspect the areas that RSI cable is deployed to ensure it meets the security needs of the installation.

Access Control Panel Connections

Gateway Connector	Gateway	Access control panel signal	Description
Power	+	12 or 24 VDC	• Gateway power inputs for 12 or 24 VDC. • Maximum current draws 12VDC 330mA/ 24VDC 100mA • Use the ACP main regulated 12 VDC power supply (or a separate UL294 Listed Power Supply or for Canadian compliance, the power supply shall be ULC 60839-11-1, ULC 304, ULC S318 listed). • Power input is non polarized.
	–	DC Ground	
RS485	RDA –	– Receive Data	• 4-Wire or 2-Wire bi-directional RS485 communication port for interface to Access Control Panels. • 2-Wire installation: Both 2 4 wire jumpers should be added. • 4 -Wire installation: Both 2 4 wire jumpers should be removed. • Refer to following pages for typical wiring diagrams.
	TDA –	– Transmit Data	
	RDB +	+ Receive Data	
	TDB +	+ Transmit Data	
	GND	Signal Ground	

The Gateway is a Class 0 Powered Device (PD), and needs to be connected to a switch that provides a maximum of 15.4 watts for each Gateway connected.

PoE Wiring Information

Power supply	PoE (12.95W compliant to IEEE 802.3af/at) 12 VDC or 24 VDC (terminals)
Operating current	PoE: 60 mA 12 VDC: 330 mA, 24 VDC: 100 mA

Environmental Ratings tested to: Ambient 0 and 49 C, 93% Humidity at 32 C. Environmental class indoor use.

UL294 Access Control Levels tested to:

- Destructive Attack LV 1
- Line Security LV 1
- Endurance LV 4
- Standby Power LV 1

For ULC 60839-11-1, the system is classified as a Grade 1 system/Security Level.

The unit is intended to be installed within the Protected Area. The unit is not intended for connection to outside wiring, covered in Article 800 in NEC/NFPA 70.

The control unit must be powered by a Listed UL 294/ULC 60839-11-1 power limited power supply.

UL testing was conducted with the product powered from a UL Listed model: TL-P130G injector, manufactured by TP-Link, primary rated 100-240 VAC 50/60Hz max 30 watts. The model GWE2 was classified as a Class 0 powered device.

ACP DC power input, RS485, PoE/Ethernet are Class 2/Power Limited. This product has been deemed power limited since the system max measurement is less than 100W.

Port	Voltage	Current
RS485 data terminal block	-7VDC to +12VDC	+/-100uA
RS485 power terminal block	+12VDC to +24VDC	0.25A
PoE	+53.5VDC	20mA

Compliance with IEEE 802.3 (af) specifications was not verified as part of UL 294 / ULC 60839-11-1.

The unit has been tested for compatibility with a UL 294 Listed, NDE-Series, Model NDE80 Schlage Engage Wireless Lock.

Unit firmware version 05.xx.xx

The IP Mode of the ENGAGE Gateway was not evaluated by UL to provide access control functions between the ACP and locks.

Locations and wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA 70 for U.S. and Canadian Electrical Code for Canada.

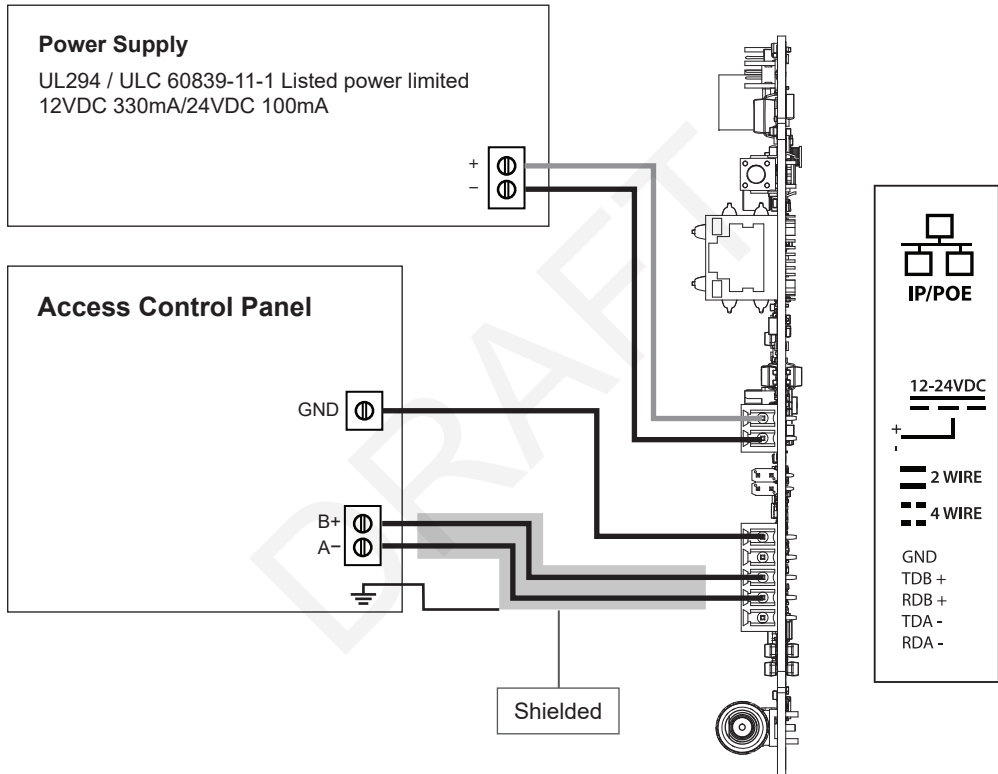
- ① **For best results, please have a maintained wattage of at least 12.95W. Please refer to switch/router settings.**

Typical Gateway to ACP wiring diagrams

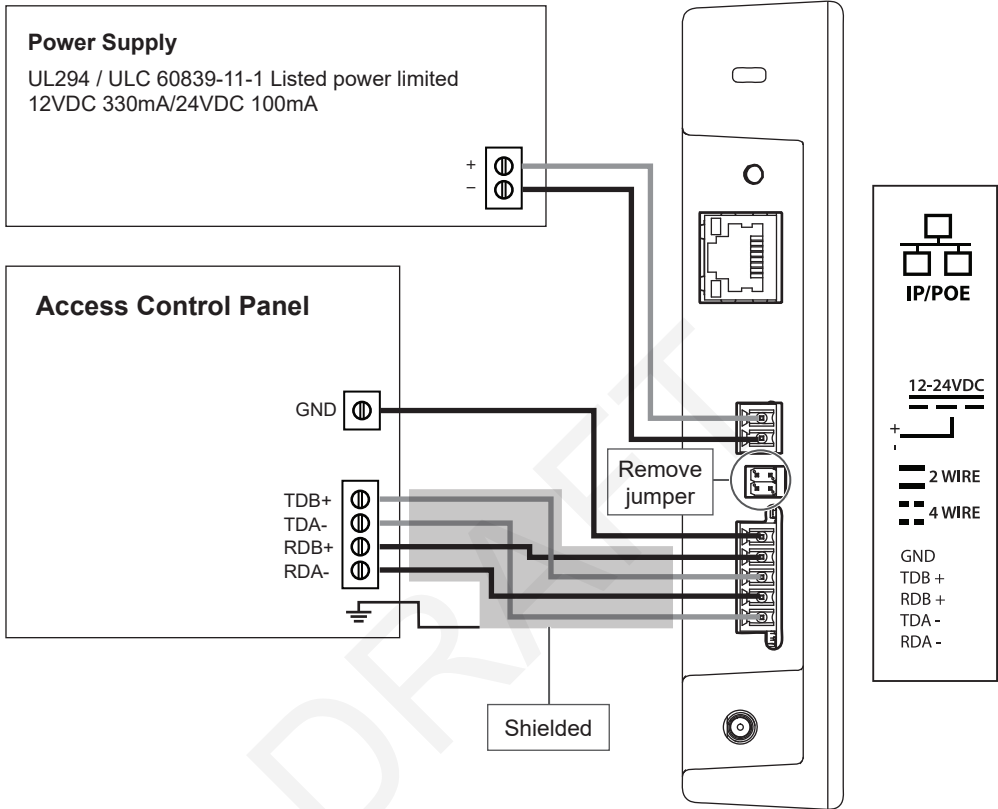
WARNING

The diagrams included show typical ACP to Gateway wiring. Refer to your ACP documentation for specific wiring information.

The diagrams included show typical ACP to Gateway wiring. Refer to your ACP documentation for specific wiring information.



2 Wire Diagram



4 Wire Diagram

Cable/Wire Specifications

Application	Part number	AWG	Description	Max distance
DC Power Input	Belden 8760 or equivalent	18	2 Conductor	1000 feet (305 meters)
RS485	Belden 9841 or 9842 or equivalent, or as specified by local electrical codes or the ACP provider	24	2 or 4 Conductor shielded	4000 feet (1219 meters)
POE			CAT 5/6	300 feet (100 meters)

Quick installer checklist

- Verify switch chassis is earth-grounded to ANSI/TIA-942 or local code. Confirm grounding conductor size per local code/vendor guidance.
- Disable port-level power saving and Energy Efficient Ethernet (EEE) features on ports that power GWE devices to avoid unintended power transitions.
- Use Cat6a Shielded Twisted Pair cable in high-noise or industrial environments.

Factory Default Reset (FDR)

A Factory Default Reset (FDR) will return the ENGAGE Gateway settings to the original settings as shipped from the factory. A FDR removes configurations, databases, and requires the device to be recommissioned. A FDR will not remove the device from your ENGAGE account. If you wish to move a Gateway to a different site you must first delete Gateway from site through with the mobile app. Then you must FDR the gateway before you can commission into a new site.

A Press and hold the FDR button.

Hold the button until the Gateway Status LED flashes green two times and remains solid. After the indicator flashes twice, you may release the FDR button.



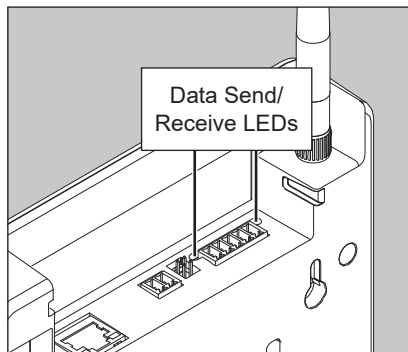
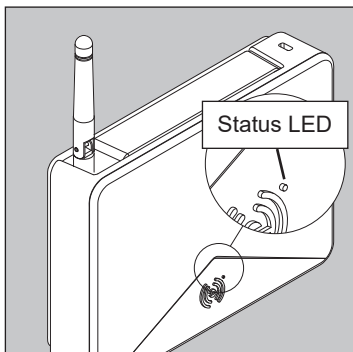
Top View

B Wait for the Gateway to complete FDR.

After starting the FDR process the Gateway indicator will be solid green for a moment and reboot. The reboot process can take a few minutes. During the boot process the Gateway indicator will be solid amber. The Gateway will be in a factory default state when the indicator is solid red.

LED Indicator Guide

Status LED	Meaning	Type of LED User Interface
Solid amber	Gateway is booting up	State
Long flash amber, repeating	Gateway Wi-Fi access point is active	State
Fast flash x2, repeating for 1 minute	Factory default reset did not complete successfully	Status code
Fast flash x3, repeating for 1 minute	Power on self test failure	Status code
Solid blue	Gateway is commissioned, normal operation	State
Long flashing blue	Mobile application is connected to Gateway	State
Fast flash blue, repeating	Gateway is in link mode - connected and linking to new lock	State
Alternating long flashing blue and red	Gateway is in link mode - searching for new lock	State
Solid red	Factory Default State / Uncommissioned	State
Fast flash red x4	Linking to lock was not a success	Status code
Alternating green and red long flashes, repeat	Gateway is updating its firmware	State
Solid green	Gateway is in process of resetting to default settings	State
Fast flash green x2	Gateway will begin a factory default reset	Response to user action
Fast flash green x3	Linking to lock was a success FW upgrade succeeded	Status code



LED Indicator Guide (continued)

Ethernet (RJ45) LED Indicators

LED (Color)	Purpose	Indication / Behavior
Link / Activity (Green)	Link and activity status	- OFF - When no Ethernet cable is detected
		- Turns ON when the Ethernet cable is connected (Link Up)
		- Blinks during data transmission
Speed (Amber)	Link speed status	- Default ON at power-up (regardless of link status)
		- Turns OFF at 10 Mbps speed
		- Turns ON at 100 Mbps speed

Troubleshooting

Problem	Possible cause	Solution
The Gateway does not communicate with the Access Control Panel.	The RS-485 cable between the Gateway and the Access Control Panel may be damaged.	Replace the RS-485 cable between the Gateway and the Access Control Panel.
	The RS-485 signals between the Gateway and the Access Control Panel may be wired incorrectly.	Refer to Gateway wiring diagrams and ACP system documentation for proper wiring instructions.
	The RS-485 address of the Gateway may not match the RS-485 address assigned in the Access Control Panel.	Change the RS-485 address of the Gateway to match the RS-485 address assigned within the Access Control Panel.
	The 2 4 wire jumpers (P5) may be improperly installed for communication with Gateway 4-Wire or improperly removed for communication with RS-485 2-Wire.	Install the 2 4 wire jumpers when communicating with RS-485 2-Wire. Remove the 2 4 wire jumpers when communicating with RS-485 4-Wire. Refer to typical Gateway wiring diagrams.

Problem	Possible cause	Solution
The Gateway does not communicate with lock/device	The Gateway antenna may not be properly installed.	Ensure that the Gateway antenna is installed vertically and properly seated.
	Wiring may cause interference with the antenna	Check to ensure that wiring is properly routed and the area around the antenna is clear of any wire. See wire routing diagrams for more information.
	The Gateway may not be linked to the lock	Link the Gateway to the lock. See Linking Locks and Gateways on page 5.
Gateway not linking with device	For Gateway and the device to link, they both must be commissioned in the same site.	Commission the Gateway and device in the same site. Before LINKING they should both be listed in the site device list.
	Device is too far from the Gateway.	Gateway must be within 30 feet of device with no signal obstructions. Move the Gateway closer to the door and Link to check signal strength.
	Device has low batteries.	Measure the batteries, new batteries measure 1.5 volt each, over 6.0 volt total when new.
	Won't start RSI LINK mode. RX switch, credential reader, Push button not activating per the RSI LINK Wizard. LX and RX activating is needed for RU & RM RSI LINK mode.	Put the NDE & LE in RSI link mode per the Mobile app LINK Wizard, turn and hold the inside lever while presenting a credential to the reader. Hold lever until RED/GREEN blinking starts. RU & RM use the LX latch and RX push pad per the sequence in the RU & RM Installation Instructions. Push in the latch (LX) and hold in, 2 seconds later push in the push pad (RX) hold both for 2 seconds, then release both for 2 seconds, push in again just the latch (LX) for 3 seconds or more until the RED/GREEN LINK blinking for RSI LINK mode starts. Note, CTE cannot LINK in RSI Gateway mode. CTE only LINKS in IP Gateway mode.
	Account tokens are expired, especially likely to happen when two Mobile applications sign in using the same account log-in.	Log out and back in to ENGAGE to refresh tokens, or find token refresh in the My Account screen. Two mobile apps should never share the same log-in.

Problem	Possible cause	Solution
Weak signal indicated in "Manage Linked Device" screen. The Site Survey fails for low signal.	Distance from Gateway to linked device exceeds 30 feet.	Install a Gateway closer to the device.
	Bluetooth signal is obstructed or blocked by metal near the Gateway, metal in the walls.	Move the Gateway away from any metal. Mount the Gateway on a one inch wood standoff way from any metal wall studs.
	Furniture obstructions of Bluetooth signal.	Move the Gateway, up, down, left or right, to avoid the obstruction.
	Gateway too close to a Wi-Fi Access Point.	Move the Gateway mounting location to be at least 10 feet from any Wi-Fi Access Point.
	Gateway antenna tilted away from device.	Make sure the antenna is tightly connected to the Gateway. The Gateway antenna has an omni-directional antenna. Titled antennas will miminish maximum performance. Make sure the antenna is vertical.

FCC and ISED Statement

FCC Statement: 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 communication. 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

FCC Radiation Exposure Statement

To comply with FCC RF exposure requirements for mobile transmitting devices, this transmitter should only be used or installed at locations where there is at least 20 cm separation distance between the antenna and all persons.

ISED Statement

This radio transmitter has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Antenna 1 - Whip Antenna	Taoglas , GW.11.A153W , Max gain 2.3dBi , 50 Ohms
Antenna 2 - Printed IFA	Allegion PCB , 1.94dBi , 50 Ohms

ISED Radiation Exposure Statement

This Device complies with ISED License-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- (3) this equipment shall be installed and operated with a minimum distance of 20cm between the radiator and your body.

DRAFT

Customer Service

1-877-671-7011

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