

RBM Express Gateway

GW-1000-WE/GW-1000-NWE

MOUNTING INSTRUCTIONS

E	Keep these instructions together with the device or with the equipment documentation! Only qualified personnel may perform electrical connections for 230 VAC.	F	Cette instruction est à conserver avec le contrôleur ou avec la documentation de l'installation ! Le raccordement électrique pour le 230 VAC ne peut être effectué que par le personnel autorisé.	P	Guarde estas instruções junto do regulador ou junto da documentação da instalação! A ligação eléctrica a 230 VAC só deve ser efectuada por pessoal especializado.
D	Diese Anleitung ist beim Gerät oder in der Anlagendokumentation aufzubewahren! Elektrisches Anschließen von 230 VAC ist nur durch autorisiertes Fachpersonal gestattet.	I	Queste istruzioni devono essere conservate insieme al lettore o con la documentazione dell'impianto! I collegamenti a 230VCA devono essere eseguiti da personale qualificato.	S	Denna instruktion skall förvaras tillsammans med regler eller anläggningsdokumentationen! Elektrisk anslutning med 230 VAC får endast utföras av behörig personal.
DK	Opbevar denne vejledning sammen med regler eller med anlægssdokumentationen! Elektrisk tilslutning for 230 VAC bør kun foretages af autoriserede personer.	N	Denne veiledningen skal oppbevares sammen med regler eller anleggsdokumentasjonen! Elektrisk tilkøpling med 230 VAC må kun utføres av fagfolk.	FI	Tätä ohjetta tulee säilyttää laitteen läheisyydessä tai yhdessä muiden dokumenttien kanssa! Vain asianmukaiset oikeudet omaava henkilö saa suorittaa 230 VAC käyttöjännitteen liitännätöitä.
ES	Conserve estas instrucciones con el recalar o con la documentación de la instalación. La conexión eléctrica a 230 VCA debe hacerse solamente por personal cualificado.	NL	Deze handleiding moet bij de regelaar, of met de documentatie van de installatie worden bewaard! De elektrische aansluiting voor 230 VAC mag alleen door geautoriseerd personeel worden uitgevoerd.	PL	Instrukcję obsługi należy przechowywać przy urządzeniu albo w dokumentacji technicznej. Tylko autoryzowany serwis jest upoważniony do podłączenia do 230 VAT.
SC	请将此装配说明书与设备或者与设备的其他文档保存在一起！ 230 V 交流电的接线操作仅允许由合格的专业人员执行	TC	請將此裝配說明書與設備或者與設備的其他文件儲存在一起！ 僅能由合格的专业人員進行230 V交流電的接線作業。	K	본 설치 설명서를 해당 장치 또는 관련 문서와 함께 보관하시기 바랍니다. 230VAC 전원 연결은 관련 작업 전문가에 의해 수행되어야 합니다.

SUPPORTED DOCUMENTS

- 31-00424 (Gateway Datasheet)
- 31-00426 (Gateway Installation Guide)

! 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 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.

WEEE



WEEE Directive 2012/19/EC Waste Electrical and Electronic Equipment Directive

- At the end of the product life, dispose of the packaging and product in an appropriate recycling center.
- Do not dispose of the device with the usual domestic refuse.
- Do not burn the device.

Regulation (EC) No 1907/2006

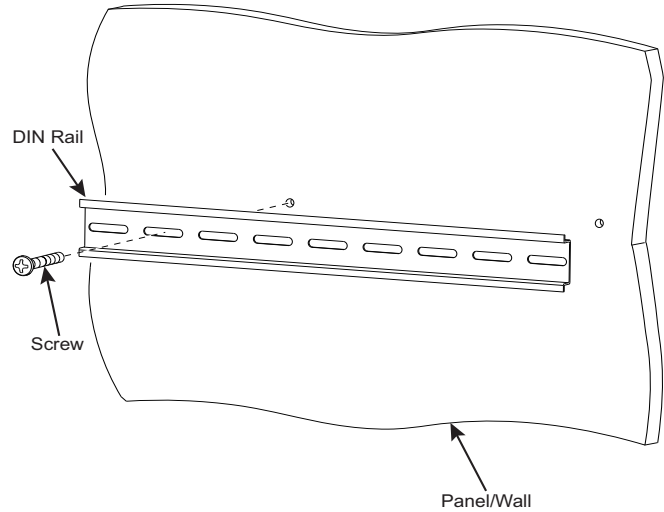
According to Article 33 of REACH Regulation, be informed that this product may contain components with lead (CAS: 7439-92-1) content above the threshold level of 0.1% by weight.

INTRODUCTION

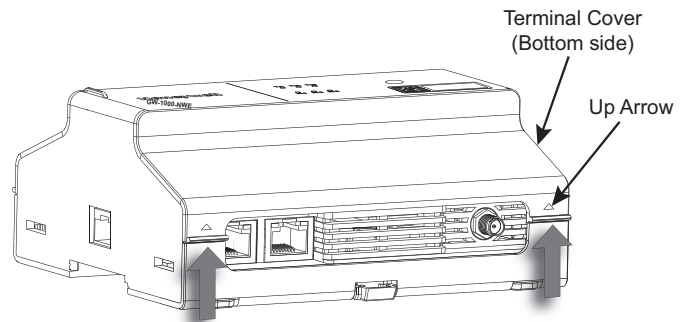
This document contains mounting instructions for GW-1000-WE and GW-1000-NWE Gateways and its accessories. These Gateways can be mounted on the wall, panel, and DIN rail.

Mounting the Gateway on a Wall/Panel Using DIN Rail

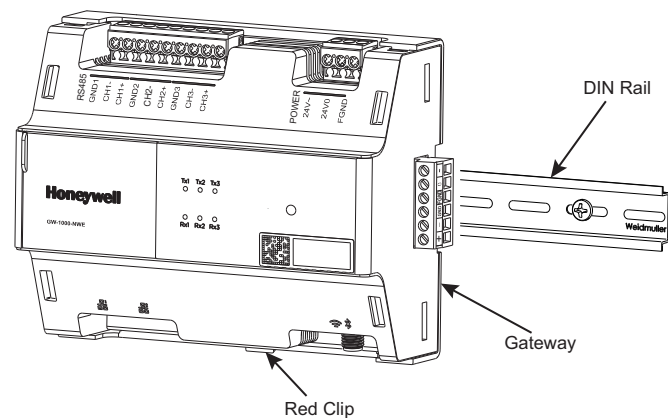
1. Mount the DIN rail on the wall/panel by using screws.



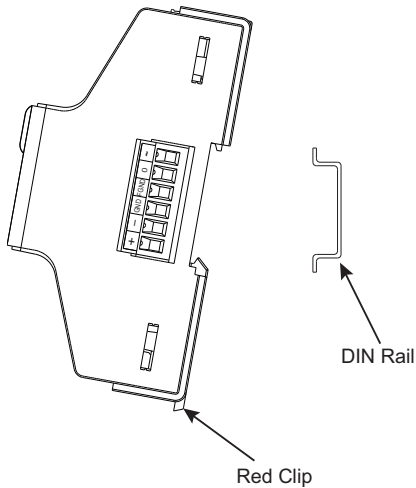
2. Remove the bottom Terminal Cover from the Gateway. Use your fingers to push the cover upwards as shown in the below figure.



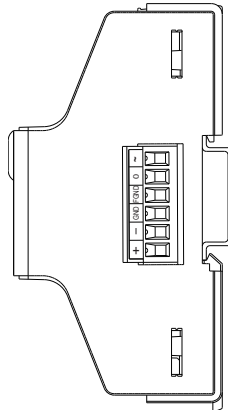
3. Remove the top Terminal Cover as described in the previous step.
4. Hold the Gateway in an orientation such that the red clip is facing downwards and towards the DIN rail.



- Tilt the Gateway as shown in the below figure.



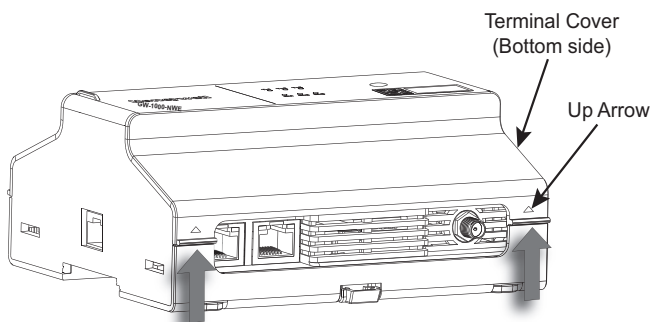
- Mount the top side of the Gateway on the DIN rail and then push the bottom side of the Gateway until the red clip on the Gateway clamps with the DIN rail.



- Connect the terminal wires, Ethernet cables, and antenna (if applicable). For antenna installation, see the "Antenna" section.
- Re-mount the terminal covers.

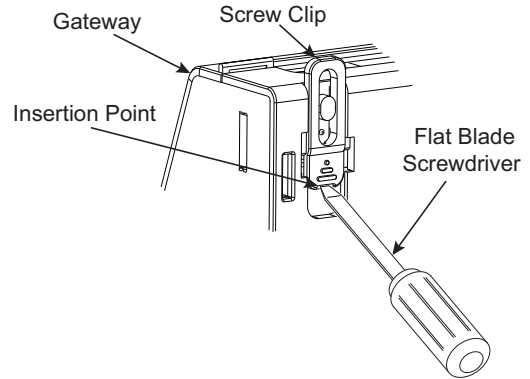
Mounting the Gateway on a Wall/Panel Using Screws

- Remove the bottom Terminal Cover from the Gateway. Use your fingers to push the cover upwards as shown in the below figure.

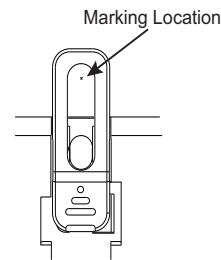


- Remove the top Terminal Cover as described in the previous step.

- Extend all the screw clips on the Gateway by placing a flat blade screwdriver on the slot as shown and slide out.



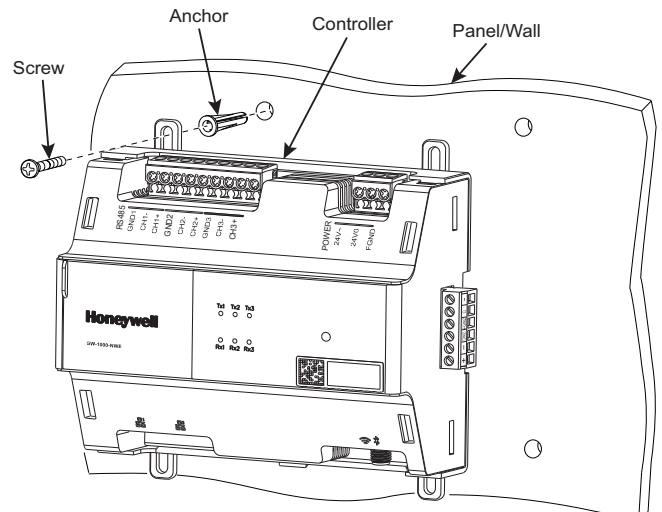
- Hold the Gateway along the wall and mark four drilling locations through the **higher point of the screw clip slots** as shown in the below figure.



- Remove the Gateway from the wall and drill four holes at the marked locations.
- Insert anchors into the four mounting screw holes.
- Hold the Gateway along with the wall/panel so that the holes are aligned.
- Insert the screws into the topside holes first and fasten them with a screwdriver.

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

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



- Connect the terminal wires, Ethernet cables, and antenna (if applicable). For antenna installation, see the "Antenna" section.
- Replace the Terminal Cover or install the Extended Terminal Cover (for more information, see the "Extended Terminal Cover" section).

Extended Terminal Cover

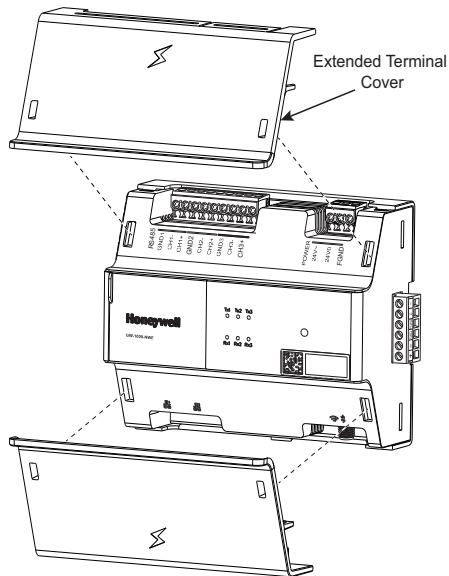
Extended Terminal Covers are used for protecting the Gateway terminals from being tampered and avoid human contact when the Gateway is mounted on a wall/door. These covers must be purchased separately.

Mounting Extended Terminal Covers

NOTE: The Extended Terminal Covers must be installed only after completing the terminal wiring and the antenna installation.

1. Place the upper Extended Terminal Cover on the top side of the Gateway so that the rectangular slots of the Gateway and the rectangular clip of the Extended Terminal Cover are aligned.
2. Push the Extended Terminal Cover using both hands until the cover firmly attached to the Gateway.
3. Repeat the step above to mount the lower Extended Terminal Cover.

NOTE: To remove the Extended Terminal Cover, a flat blade screwdriver is required. See the “Removing Extended Terminal Covers” section for details.



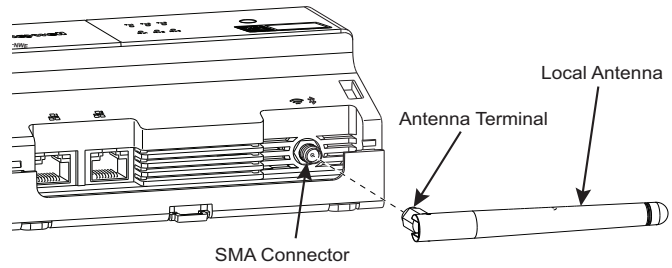
Antenna

The connected devices can communicate with the Gateway via Wi-Fi or Bluetooth connections. The Gateway kit contains a Remote antenna that must be installed manually on the Gateway. The Remote antenna has a cable that connects to the Gateway, and the antenna is mounted outside the panel/cabinet.

The Local antenna can be purchased separately, and it mounts directly on the Gateway. The Local Antenna is only used when the Gateway is wall mounted or mounted outside of a panel/cabinet.

Installing the Local Antenna

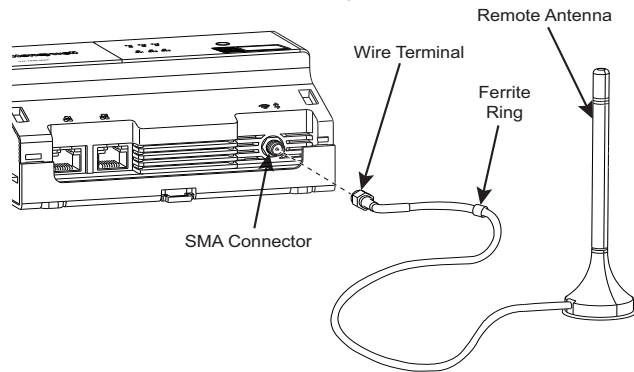
1. Insert the antenna terminal end into the SMA connector.



2. Tighten the antenna terminal nut by turning the nut clockwise. Do not over tighten.

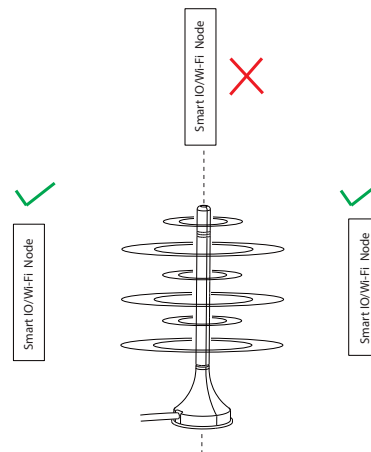
Installing the Remote Antenna

1. Place the Remote antenna where the signal reception is good.
2. Route the Remote antenna wire terminal to the Gateway.
3. Insert the wire terminal into the SMA connector.
4. Tighten the wire terminal nut by turning the nut clockwise. Do not over tighten.

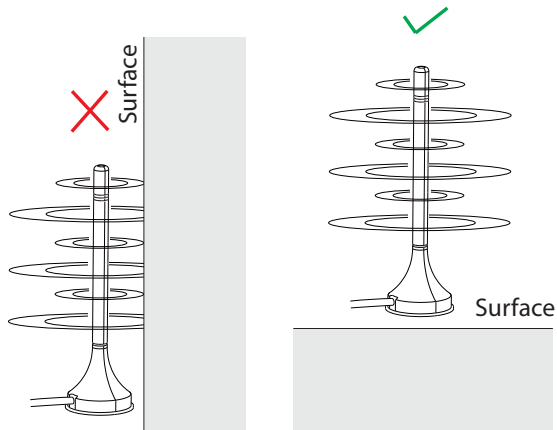


REMOTE ANTENNA PLACEMENT

- Place and align the antenna in a way that the Wi-Fi signal does not interfere with many obstacles.
- Obstacles such as metal, steel-reinforced concrete wall filter ~10-90% of the Wi-Fi signal. Other obstacles such as drywall, wood, glass filter ~0-10% of the Wi-Fi signal.
- The antenna has a strong signal transmission/reception from the side. See the figure below. Position the sides of the antenna towards the device it is communicating with (e.g Smart IO/WiFi Node).



- Keep the antenna away from devices that cause wireless interference such as other Wi-Fi network and telecommunications equipment.
- Make sure that the antenna is installed perpendicular to the surface for a good Wi-Fi signal.

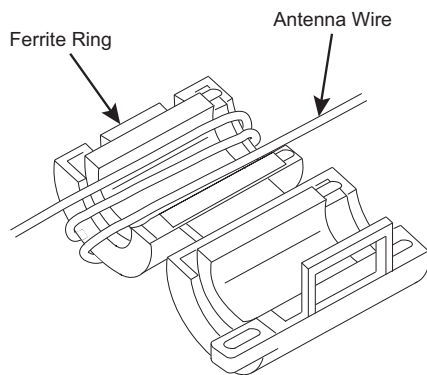


- Do not install the antenna close to the floor.
- The Local antenna can be used when the Gateway is installed in a plastic cabinet/enclosure.

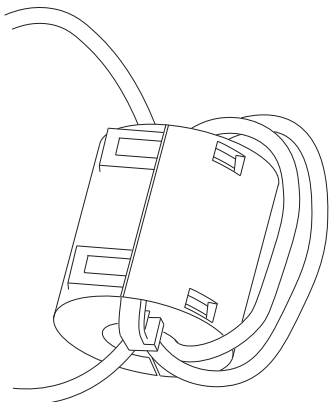
Installing Ferrite Ring

Ferrite ring is supplied with the kit. It must be installed on the antenna wire somewhere between 10 to 30 cm from the Gateway.

1. Lift the two locking tabs to open the ferrite ring.
2. Wind the wire three times as shown in the below figure.

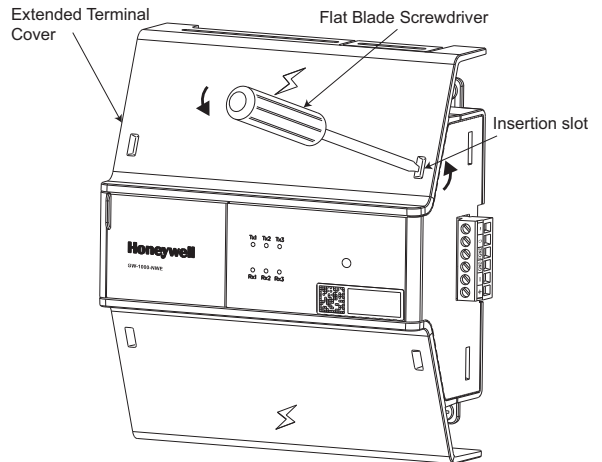


3. Lock the Ferrite ring.



Removing the Extended Terminal Covers

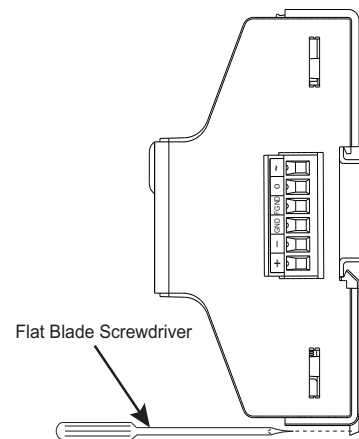
1. Insert a flat blade screwdriver into the rectangular slot as shown in the below figure.



2. Use the flat blade screwdriver as a lever, pull out the top Extended Terminal Cover.
3. Repeat the steps above to remove the bottom Extended Terminal Cover.

Removing the Gateway from the DIN Rail

1. Remove the Terminal Covers if applicable.
2. Disconnect all the communication and power supply terminals from the Gateway.
3. Uninstall the antenna by turning the antenna terminal nut anticlockwise.
4. Hold the Gateway with one hand and insert a flat blade screwdriver into the red clip slot.

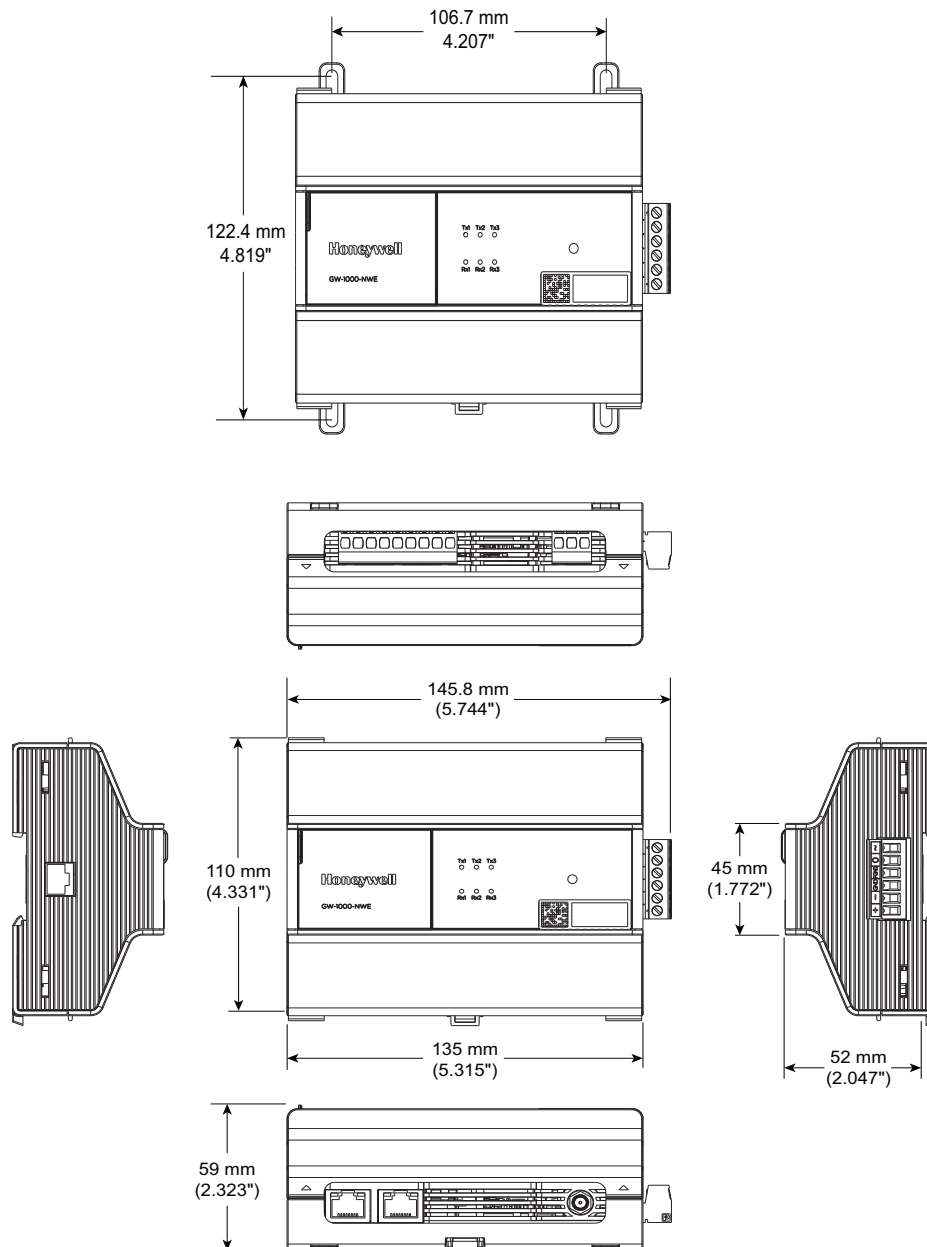


5. Pull the red clip downward by using the flat blade screwdriver.
6. After the Gateway is released from the DIN rail, slightly tilt the Gateway on the horizontal axis, lift and detach the Gateway from the DIN rail.

Removing the Gateway from the Wall/Panel

1. Remove the Extended Terminal Covers if applicable (see the Removing the Extended Terminal Cover section).
2. Disconnect all the communication and power supply terminals from the Gateway.
3. Disconnect the antenna by turning the antenna terminal nut anticlockwise.
4. Unscrew the bottom side screws first by using a screwdriver.
5. Hold the Gateway with one hand and unscrew the top side screws by using a screwdriver.

DIMENSIONS



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