

Standalone VGate BLE V2

Read all documents and system instructions carefully to minimize the risk of harming people by misuse and to avoid damage to the system or to the environment.

The device Standalone VGate BLE V2 is also known as VGate as an abbreviation and easier readability within the document.

Keep all documents and guidance accessible at all times.

If necessary, the content of this document will be updated. You can request the latest version of the document via office.at@vusion.com.

The company VusionGroup assumes no liability for any damage caused by improper installation or handling.

The installation instructions are intended for trained electricians who can exhibit the following qualifications:

- Knowledge of the use of tools and work instructions.
- Knowledge of the usable conditions of the tool.
- Knowledge of the electrical safety instructions.
- Knowledge of the electrical building regulations.
- Knowledge of the relevant standards.
- Knowledge of the assembly schedule.

Mounting location

The Access Point can be mounted on a:

- Concrete wall
- Mortar wall
- T-Mounting rail

Select the installation location for the Access Point carefully. Pay particular attention to the following requirements:

- Install the Access Point only in areas where the permissible environmental conditions can be observed.
- Don't install the Access Point in an environment with direct sunlight or heat source.
- Mount the metal bracket for the Access Point on dry surfaces only.
- Don't mount the Access Point on any flammable material.
- The minimum bearing capacity of the substrate has to be 5 kg.
- The LAN cable manufacturer must be compliant to the default specifications (e.g. minimum bend radius of 3cm)

Approachability

- Mount the metal bracket in a way that the Access Point can easily be attached to it by applying light pressure to it.
- Make sure that the LAN socket is easily accessible after the installation.
- The LED must be clearly visible after the installation is completed.

- It is important that the inner surface of the Access Point has sufficient air circulation.
The vents must be free to ensure sufficient ventilation to prevent overheating.



The mounting material (e.g. screws or pegs) for securing the metal bracket on concrete walls is not part of the scope of delivery. It has to be purchased separately if needed, depending on the actual substrate.

Maintenance

- The VGate does not contain parts that have to be maintained by the user. The VGate must NOT be opened. For necessary maintenance or repair works always contact the manufacturer.
- The device is provided with a warranty seal. Damaging the warranty seal expires all warranty claims.

Problems which require maintenance or replacement of the VGate

Unplug the power supply and contact Vusion Group if following cases occur:

- The VGate was strewn with liquid.
- The VGate has been dropped or damaged.
- The LAN port of the VGate is damaged.
- The LED of the VGate no longer lights up.

Contact the manufacturer if despite intended purpose the device is not working and none of the mentioned cases occurred.

Operating and storage of the VGate

If the mounting of the VGate is intended to be done at a later date, please assure proper storage:

- Operate the VGate at a temperature from 0°C to +40°C.
- Store the VGate in the delivered original packing at a temperature from -20°C up to +70°C
- Store the VGate in the delivered original packing at a humidity from 10% up to 85% (non-condensing)
- The VGate must be switched OFF while stored.
- Check the condition of the VGate after unpacking.
- Do not store other objects on top of the VGate.

Improper Use

VusionGroup is not responsible and does not assume liability for damage or injury to persons, property, environment and the VGate itself caused by improper installation or improper handling.

The operator assumes liability for any damage that results from improper use.

The following usage is not allowed:



- Don't drop the VGate.
- Keep the VGate away from water.
- Don't use the VGate with defective parts.
- Don't use the VGate with spare parts and accessories which are not examined and approved by VusionGroup.
- Unauthorized changes or modifications to the VGate and their components without the consent of VusionGroup are not allowed.
- Don't throw VGate into the dustbin. Deposit VGate at a reprocessing company.
- Contact VusionGroup for more details about the removal process.
- Please do not use any liquid or spray cleaners directly on the surface of the VGate.

Environmental protection and removal



Please ensure that you meet all local law restrictions when removing the VGate.



The VGate correlates to the ROHS guideline.

Certificates



Hereby, Vusion Group declares that the radio equipment Standalone VGate BLE V2 (Model: APB2-VGE1-A) is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following internet address: <https://www.ses-imagotag.com/en/infrastructure-alliances/doc-vusion-infrastructure/>



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.

CAUTION TO USERS

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC rules apply to the following product: APB2-VGE1-A



This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any

interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: 1) L'appareil ne doit pas produire de brouillage; 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC standards apply to the following product: APB2-VGE1-A

General remarks

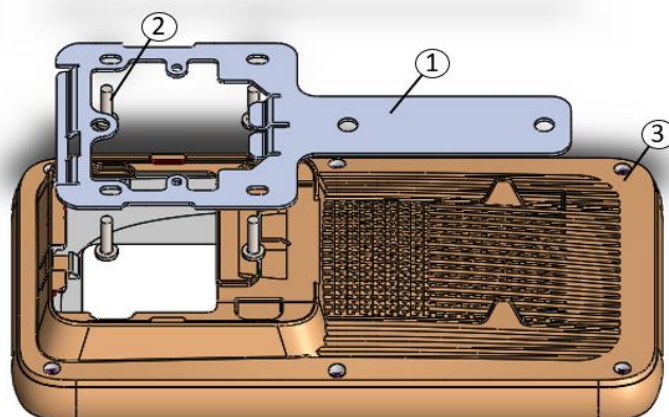
The VGate must be installed according to the mounting instructions of the producer. In rare cases it may occur that the usage of wireless appliances is restricted by the building owner (e.g. Airport or Hospital). Please contact the appropriate authorities before installing the VGate.

Mounting

The VGate can be mounted on the ceiling as well as on the wall by either using drill holes or mounting rails. The preferred variant is mounting on the ceiling since this position will best support the internal antenna of the VGate. In the case of wall mounting a horizontal orientation of VGate (instead of vertical) is preferred.

Mounting on the wall or ceiling using drill holes

- a.) Fix the mounting plate (1) to the wall or ceiling with the help of mounting screws (2) fitting to the prepared drill holes. Note that the mounting screws are not part of the delivery. Use screws with a flat head to avoid unwanted touch points with the VGate housing (3)

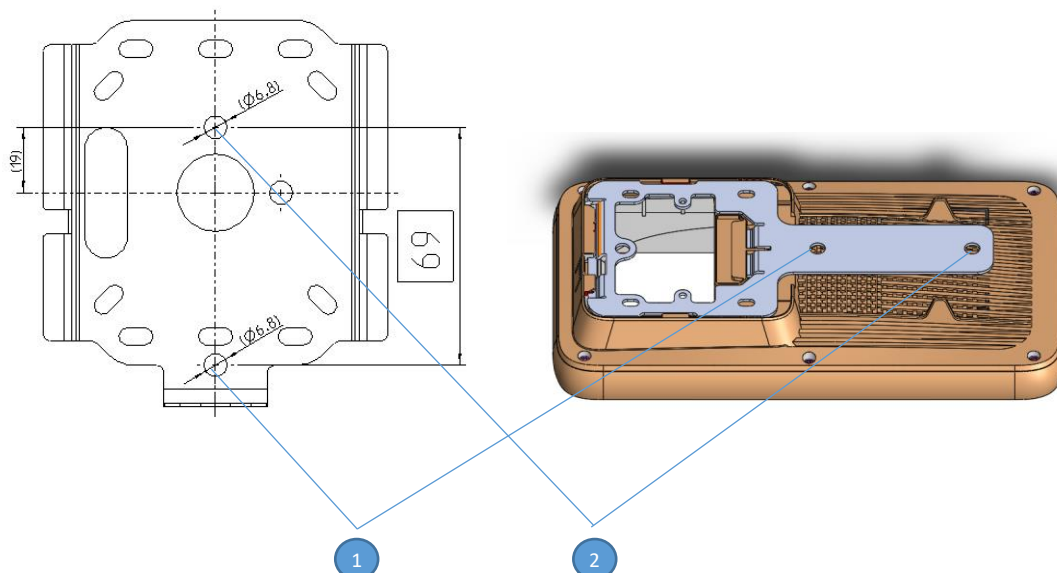


1. Mounting plate
2. Mounting screws D3-4mm

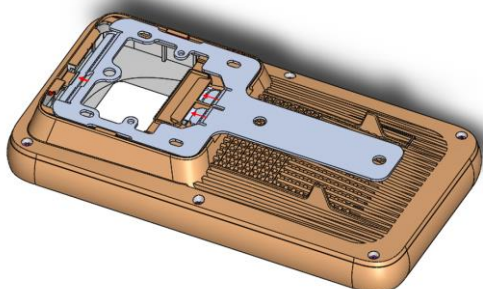
3. VGate

If you are replacing an existing AP2010/Cloudpoint with a VGate, be aware that holes from previous installations can easily be re-used as long as they are not damaged by the improper removal.

Compatible drill hole distances from AP2010 / Cloudpoint mounting plate:



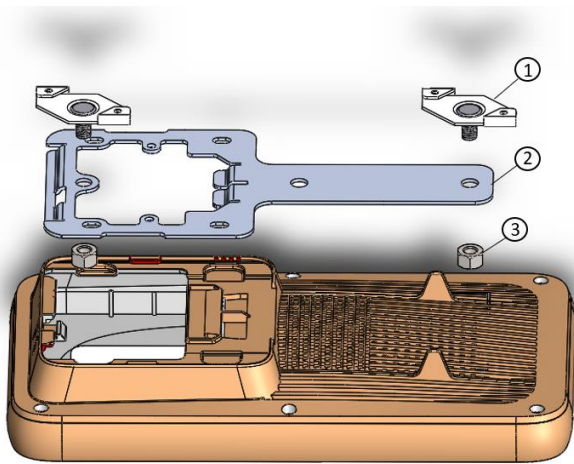
b.) Slide the VGate housing into the mounting plate until it locks in



Mounting on a T-Mounting rail

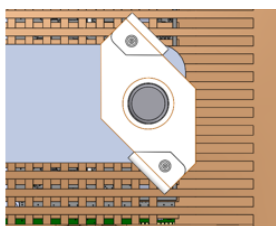
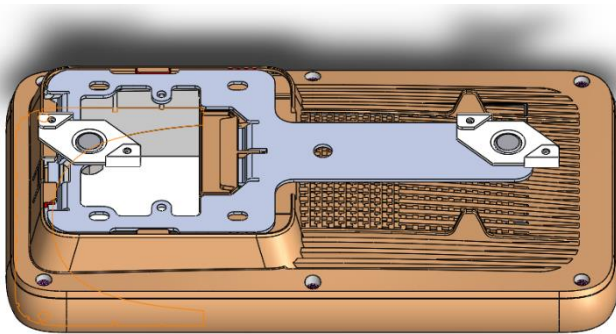
This can be done on the ceiling as well as on the wall, if appropriate T-Mouting Rails are available and pre-installed.

a. Install the mounting plate to the VGate using the two caddy clips.

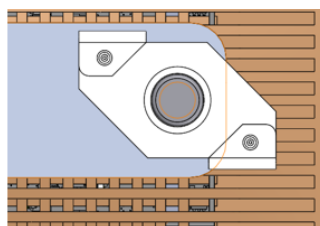


1. Caddy clips
2. Mounting plate
3. Nuts

b. Place the 2 caddy clips with the appropriate distance to the T-Mounting Rail and fix it (twist it by 45° for locking and unlocking- as shown in the illustration below).



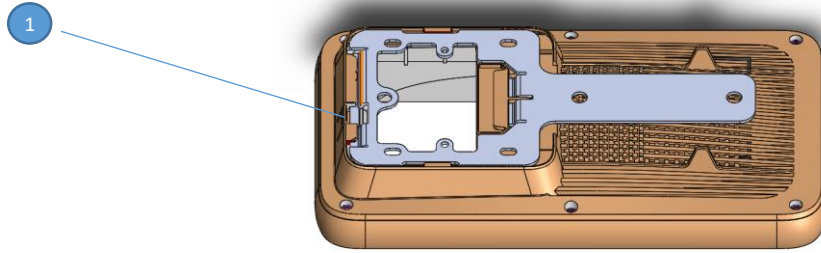
a.) unlocked



b. locked

Release from mounting plate

If you want to release the VGate from the mounting plate you can do this easily by pushing the release button (1) and slide out the VGate from the mounting.



General technical characteristics

Power:

- External Power Supply: 5 VDC / 3A
- Power Supply via PoE: IEEE 802.3af, IEEE 802.3at
- Power consumption: 15W MAX, typical 5W

Technology:

- Radio technology: Bluetooth LE (Low Energy) 5.4
- Operating frequency: 2.4 GHz (ISM-Band) – 2.4835 GHz
- Transmitted power: ≤ 10 dBm
- Number of Channels: 40 designated RF channels, 2MHz bandwidth each, using primary advertising channels at 2402, 2426 and 2480 MHz
- Access protocol: proprietary

Other:

- MTBF: >300.000h at 40°C according to SN29500

Power and Current Consumption

Power consumption measurements indicate that the VGate has the following patterns:

- Operating Current: ≤ 60 mA (max. current)
- Operating Power: ≤ 280 mW
- Supply Voltage: $5V \pm 10\%$

CE Installation Note

When operating the access point via Power over Ethernet (PoE), a ferrite core with an impedance of $\geq 125 \Omega$ at 25 MHz and $\geq 235 \Omega$ at 100 MHz shall be installed on the LAN cable.