

BEAT GATEWAY

Instructions for use

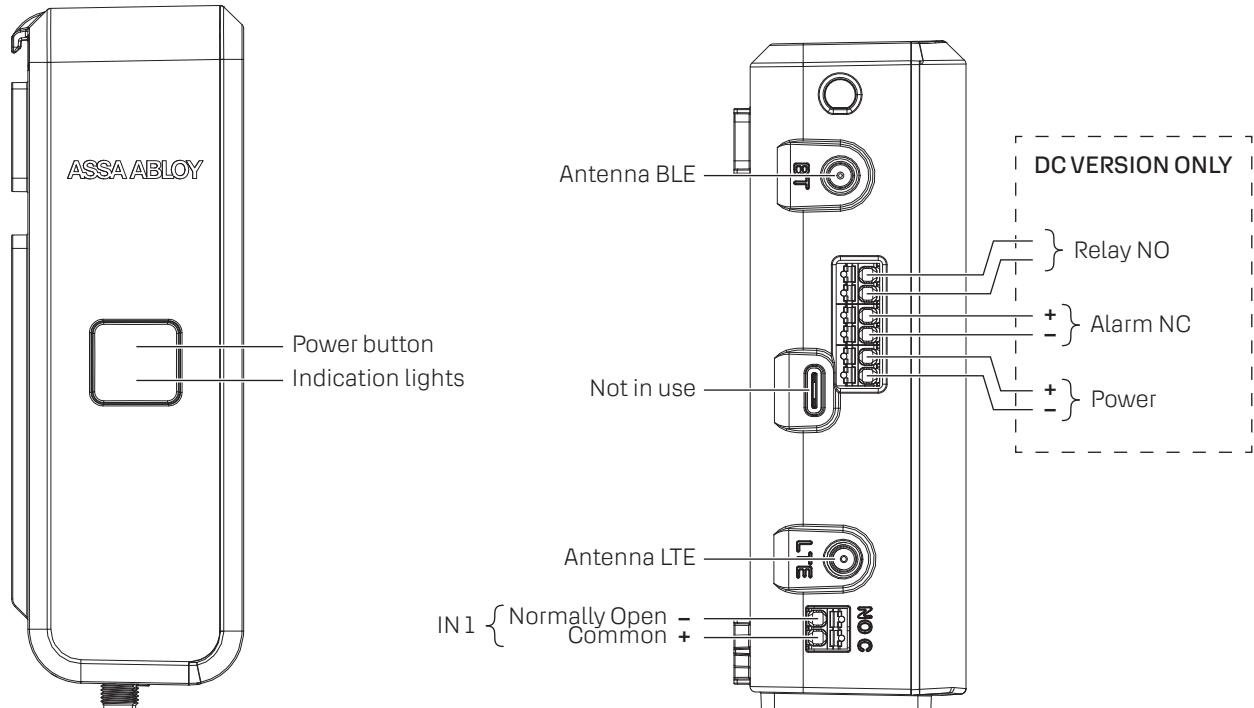
Introduction

Make BEAT product true IoT devices

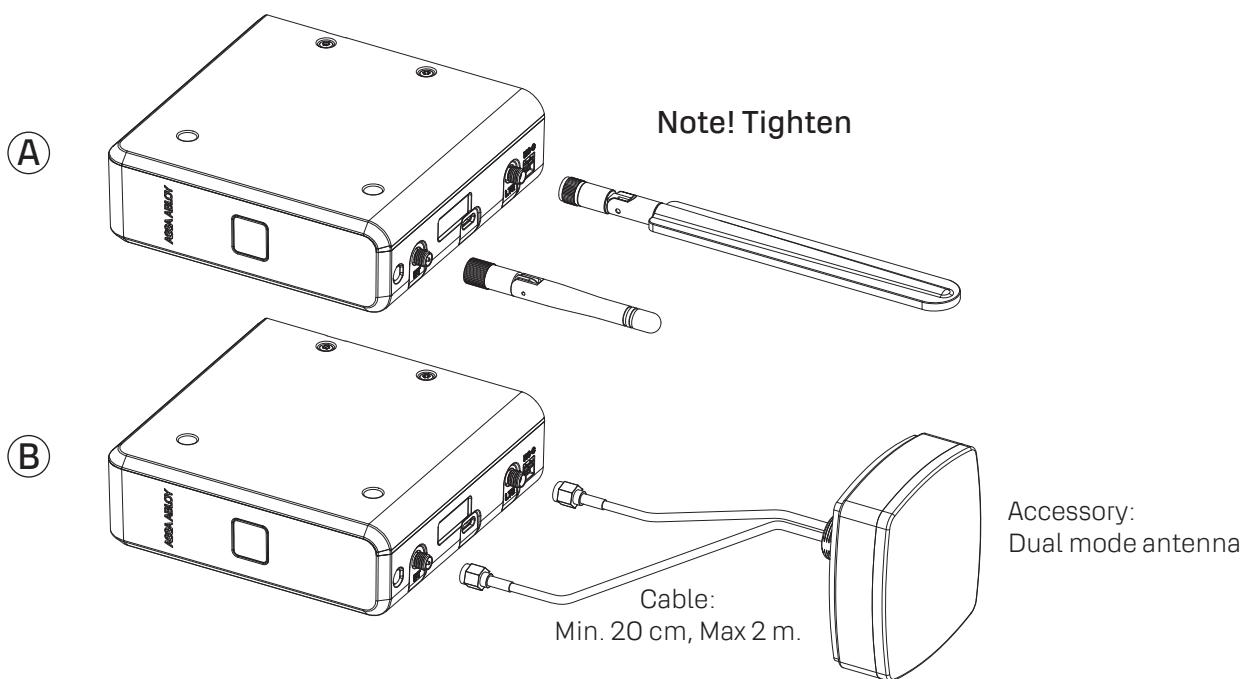
- Enable remote operations (open / close, firmware update) and monitoring
- Improved situational awareness with real-time device events
- Improved device management
- Improved security with immediate access rights update

Specifications

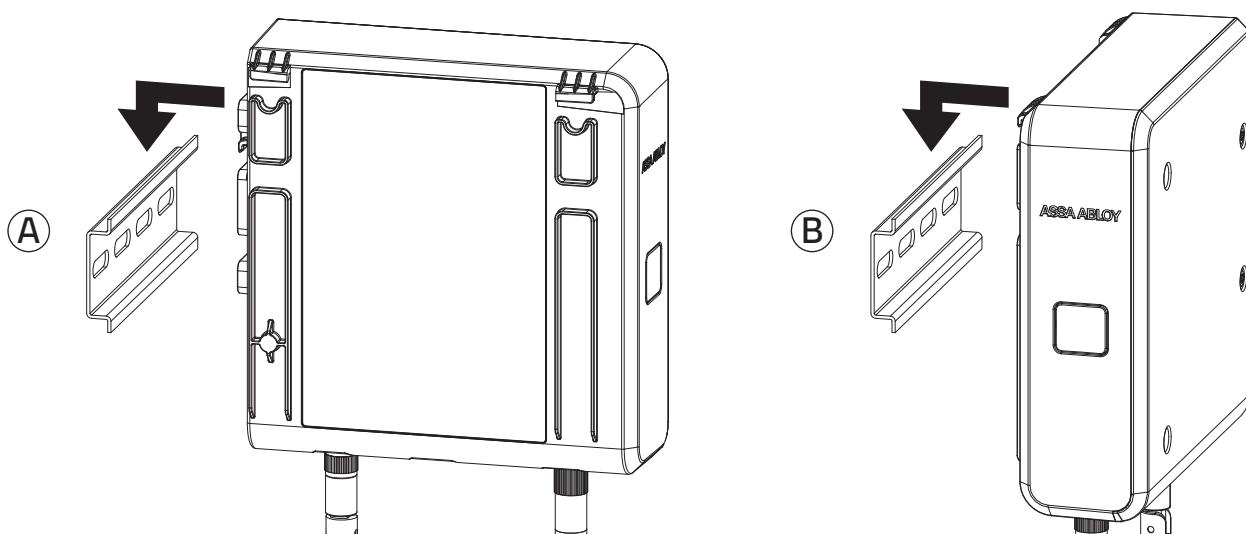
- Body: Plastic enclosure, DIN rail mounting,
Size: 120 x 125 x 40 mm (without antennas),
Weight: ~300g (battery variant, 2 x CR-P2 battery, without antennas)
- Installation height: Max. 2 m from floor
- Product variants: DC variant (12V – 24V)
 - Min. allowed power supply current 2 A, cable lenght 10 m.
 - Max. allowed power supply current 5 A, cable lenght 10 m.Battery variant (2 x CR-P2, support for 4 x CR-P2)
- Internal sensors: Temperature, Humidity
- External sensors: NO (normal open) input
NC (normal closed) input (in DC variant)
Relay output (in DC variant)
 - Max. 24 V / 2 A. Max. cable lenght is 10 m.
- Battery type: Panasonic CR-P2
- Battery life: Up to 4 years / up to 4000 openings
- Operating environment: IP43, -20°C – +55°C, 10 – 93 %
- Connectivity: BEAT locks: Bluetooth Low Energy 5.0
Operating range up to 50 m
Backend: LTE-M
maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates.
Supported LTE channels: B1–B5, B8, B12, B13, B18–B20, B25–B28, B66, B85 +B71 with accessory antenna
 - BLE (TE Connectivity ANT-2.4-LCW-RPS (2400–2500 MHz)
 - LTE-M (Quectel YECT002AA (700–960, 1710–2690 MHz)
 - Accessory for improved signal strength and coverage: (Dual mode antenna: 2J6947B)
 - Cable lenght Min. 20 cm, Max 2 m.
- Antennas:



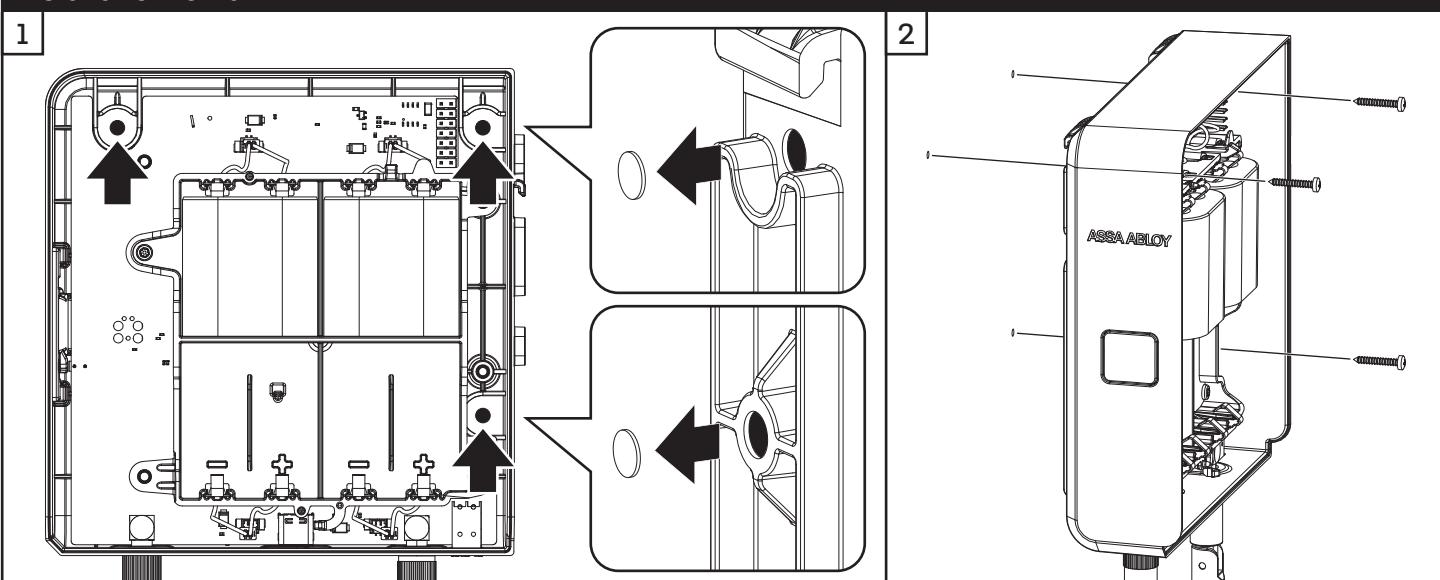
Installation of the antennas

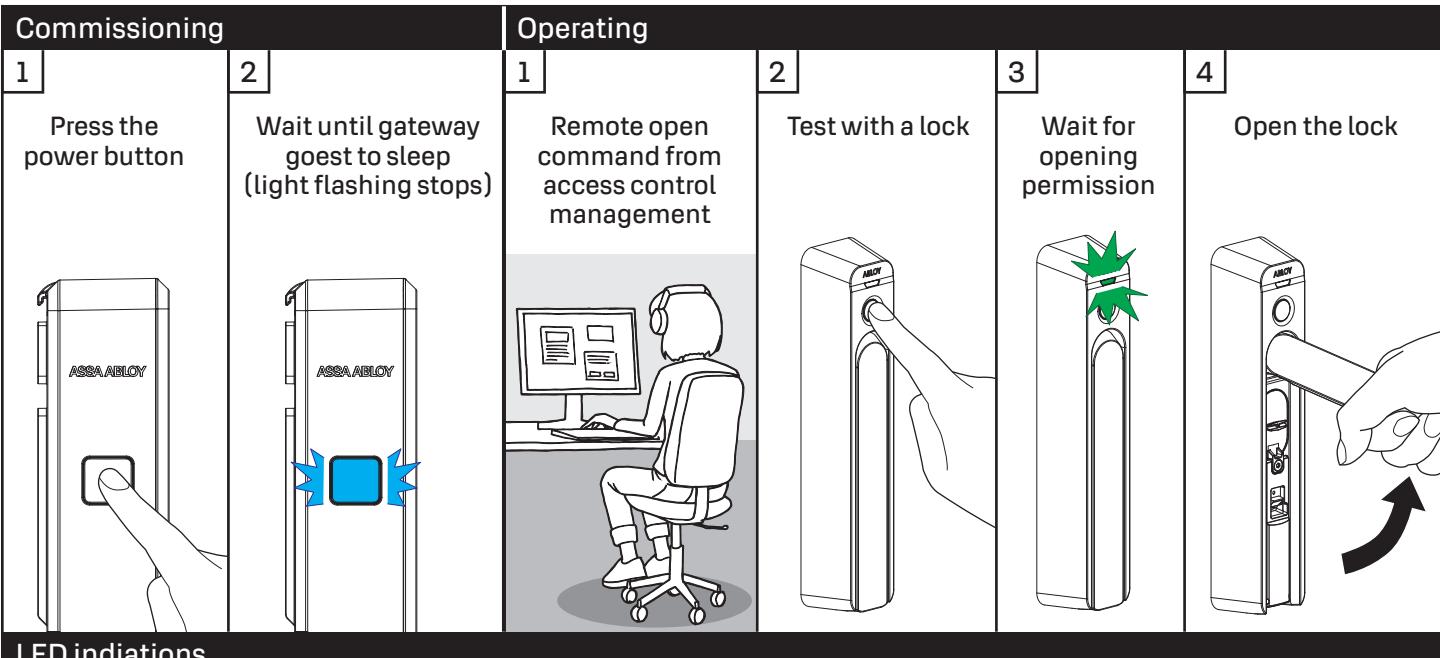


Installation to DIN

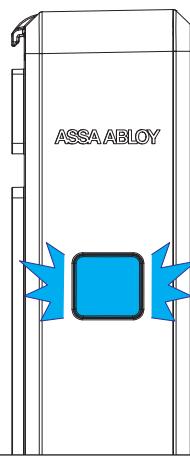


Installation to wall



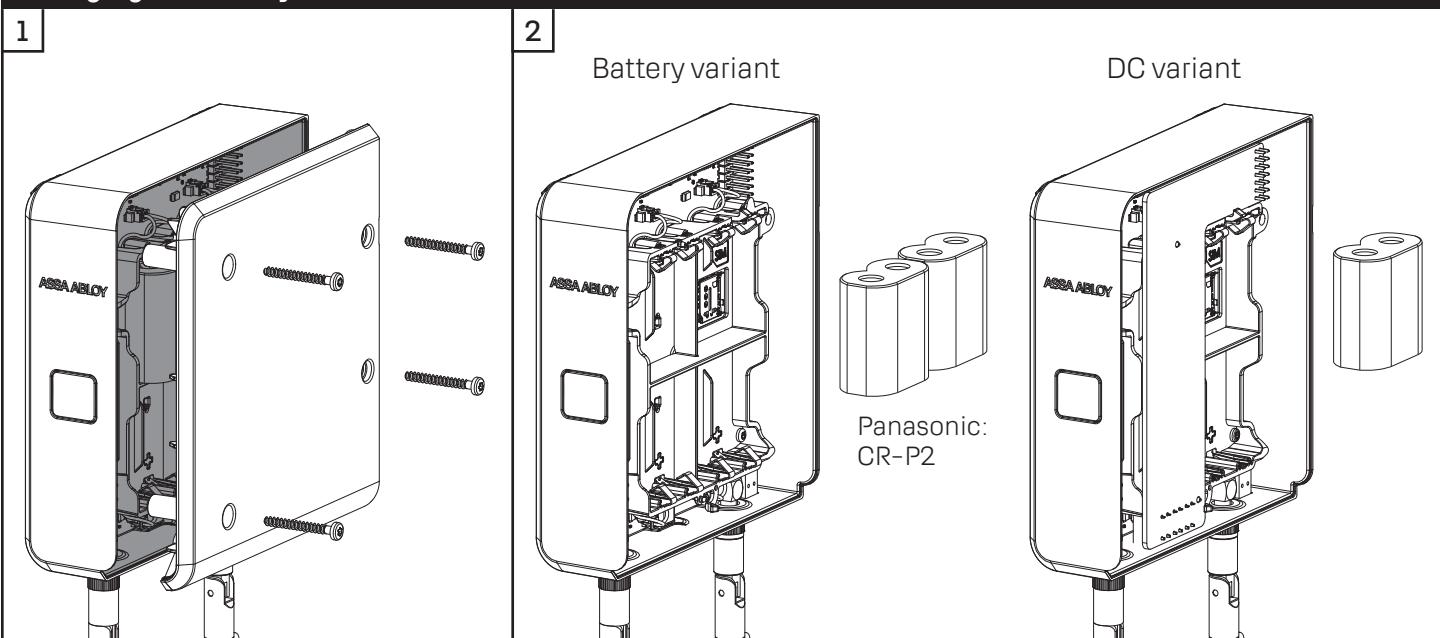


LED indications

	Function	Indication
	Wakeup, not connected	
	Awake, not connected	
	Awake, connected to lock	
	Awake, connected to cloud	
	Battery poor (not connected)	
	Battery poor (connected)	
	Going to sleep	
	Bootloader FW upgrade (Might take over 10-20 seconds)	

Color	GREEN	RED	WHITE	BLUE
Basic purpose	Indicates success	Indicates failure	Awake and not connected	Awake and connected

Changing the battery



Certifications



FCC ID: 2BFGYBGWA12
IC: 32212-BGWA12



Compliance information

EU

Directives: RED Directive 2014/53/EU, RoHS Directive 2011/65/EU and 2015/863/EU; Standards: IEC 62368-1:2018, EN IEC 62368-1:2020 + A11:2020, ETSI EN 301 489-01V2.2.3, ETSI EN 301 489-17 V3.2.4, ETSI EN 301 489-52 V1.2.1, ETSI EN 300328 V2.2.2 (2019-07), ETSI EN 301908-13 V13.2.1 (2022-02)

IC/ISED

This Device complies with Industry Canada 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.

Le présent appareil est conforme aux CNR d'Industrie 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.

This radio transmitter (identify the device by certification number, or model number if (Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

CAN ICES (B) / NMB (B)

FCC

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

NOTE: 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 communications. 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 or more 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.

To comply with FCC RF exposure limits for general population / uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from any persons and must not be co-located or operating in conjunction with any other antenna or transmitter.