# User Manual

## Original instructions
## ASSA ABLOY IoT Gateway 2.0

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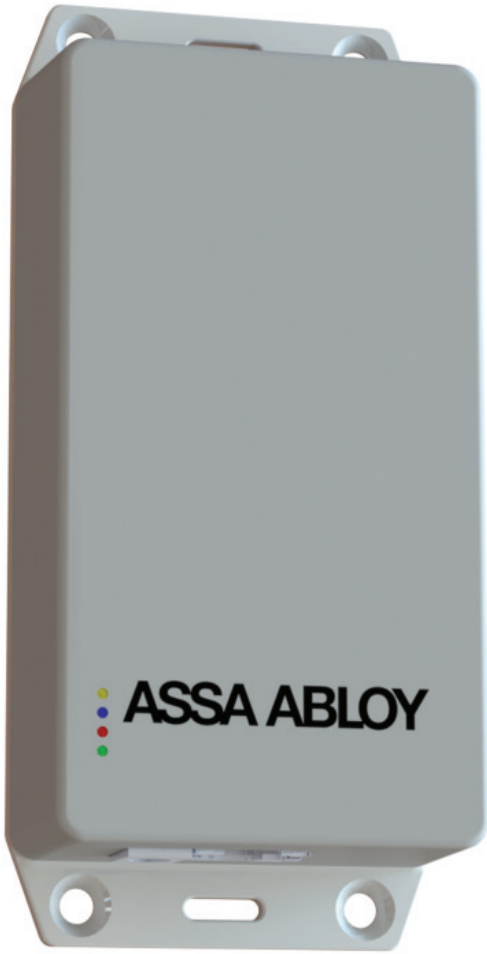


Original instructions

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*Technical data subject to change without notice.*



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# Technical specification ASSA ABLOY IoT Gateway 2.0

| | |
|---|---|
| Manufacturer: | ASSA ABLOY Entrance Systems AB |
| Address: | Lodjursgatan 10, SE-261 44 Landskrona, Sweden |
| Type: | ASSA ABLOY IoT Gateway 2.0 |
| Dimensions: | 115 mm x 65 mm x 30 mm |
| Enclosure box: | Fire retardant ABS plastic |
| Compatible cables: | Category 5 (Cat 5) or Category 6 (Cat 6) twisted pair Ethernet cable |
| RJ45 connector: | Maximum 7 W without battery or 0.5 W with battery |
| Main power source: | 5 to 24V DC |
| Ambient temperature: | -20 °C to +75 °C |
| Degree of protection: | IP40 |

## Wireless Communication Interface and Frequency Bands

For the wireless interface a 4G/2G cellular modem is used.
The following table shows the frequency bands used by the IoT Gateway 2.0.

| **Frequency Bands** | **IoT Gateway 2.0** |
|---|---|
| GSM (3GPP Release 6)<br>LB: Power Class 4 (+33dBm)<br>HB: Power Class 1 (+30dBm) | B3, B8 |
| LTE (3GPP Release 9)<br>Power Class 3 (+23dBm) | B3, B7, B20 |

## Instructions for safe operation

- Failure to observe the information in this manual may result in personal injury or damage to equipment.
- Do not use the equipment if repair or adjustment is necessary.
- Do not open or dismantle. This product does not have any parts that can be repaired by the user.

## Intended use

The ASSA ABLOY IoT Gateway 2.0 (referred to as IoT Gateway 2.0 in this manual) connects automatic pedestrian doors to ASSA ABLOY Internet-based services, for remote monitoring, through a cellular wireless modem.

The IoT Gateway 2.0 is easily installed with automatic pedestrian doors, and offers a high quality service in terms of high availability and low need for maintenance.

The IoT Gateway 2.0 is powered through its cable connection to the door control unit or through an external power adapter, it must be installed in an indoor environment and located at a maximum height of 2 meter from the floor or underlying surface. Wherever possible, it is recommended to place the IoT Gateway 2.0 in consideration of the wireless performance. For instance, avoid areas with high radio signal attenuation, and do not place the antenna close to other objects.

## Electronic equipment reception interference

The equipment generates and uses radio frequency energy and if not installed and used properly, it may cause interference to radio, television reception or other radio frequency type systems.

If other equipment does not fully comply with immunity requirements, interference may occur.

## Environmental requirements

ASSA ABLOY Entrance Systems products are equipped with electronics and may also be equipped with batteries containing materials which are hazardous to the environment. Disconnect power before removing electronics and battery and make sure it is disposed of properly according to local regulations (how and where) as was done with the packaging material.

## Product liability

According to regulations, the following are the responsibility of the owner or caretaker of the equipment

- that the equipment operates correctly, so that it gives sufficient protection in regard to safety and health
- that the equipment is operated and regularly maintained, inspected and serviced by someone with documented competence in the equipment and in applicable regulations

# ASSA ABLOY IoT Gateway 2.0 LED Indication table

| LED | LED description | |
|---|---|---|
| Steady green LED | Power to the IoT Gateway 2.0. | |
| Flashing yellow LED, 0.5 s ON then 0.5 s OFF | Firmware upgrade in progress. Do not remove power to the IoT Gateway 2.0. | |
| Flashing yellow LED, 1 flash every 5 s | Searching for cellular network. | |
| Flashing yellow LED, 2 flash every 5 s | Connected to cellular network. | |
| Flashing yellow LED, 3 flash every 5 s | Not paired to door. | |
| Steady yellow LED | Everything is OK. Connected to the cloud. | |
| Flashing red LED, 5 flashes every 1 s | Critical system error | Contact your ASSA ABLOY Entrance Systems representative. |
| Flashing red LED, 1 flash every 1 s | Battery low, modem turned OFF, no connection to the cloud. | Repeated red flashes over long time - contact your ASSA ABLOY Entrance Systems representative. |
| Flashing red LED, 2 flash every 5 s | Battery low, delayed transmission from control system. | |
| Flashing red LED, 3 flash every 5 s | Battery low, no transmission from control system. | |

# Declaration of conformity

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We **ASSA ABLOY Entrance Systems AB**
**Lodjursgatan 10**
**SE-261 44 Landskrona**
**Sweden**

declare under our sole responsibility that the type of equipment:
**ASSA ABLOY IoT Gateway 2.0**

complies with the following directives:

**2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment with the applicable amendments (RoHS)**
**2014/53/EU Radio Equipment Directive (RED)**

Harmonized European standards which have been applied:

| | |
|---|---|
| Health and safety (Art. 3(1)(a)): | EN 62311:2020<br>EN 62368-1:2020+A11:2020 |
| EMC (Art. 3(1)(b)): | EN 301 489-1 v2.2.3:2019<br>EN 301 489-52 v1.2.1:2021<br>EN 55032:2015+A11:2020 |
| Spectrum (Art. 3(2)): | EN 301 908-1 v15.1.1:2021<br>EN 301 511 v12.5.1:2017 |

CB Certificate for electrical safety:
DK-12393-FC

Compilation of technical file:
ASSA ABLOY Entrance Systems AB
Lodjursgatan 10
SE-261 44 Landskrona
Sweden

| Place | Date | Signature | Position |
|---|---|---|---|
| Fehraltorf | 2023-05-30 | Mats Nordén | Head of Product Development Product Area Door Automation |

DoC 1023030-en-4.0

ASSA ABLOY Entrance Systems is a leading supplier of entrance automation solutions for efficient flow of goods and people. Building on the long-term success of the Besam, Crawford, Albany and Megadoor brands, we offer our solutions under the ASSA ABLOY brand. Our products and services are dedicated to satisfying end-user needs for safe, secure, convenient and sustainable operations.
ASSA ABLOY Entrance Systems is a division within ASSA ABLOY.

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ASSA ABLOY Entrance Systems

Tel: +46 10 47 47 000
info.aaes@assaabloy.com
assaabloyentrance.com