Technical data sheet

ENTRY

1Control ENTRY

1Control ENTRY is an electronic device that allows to operate an opening automation, such as an electrified door, a gate, a garage or a pedestrian gate, using smart access systems such as a smartphone, a smartwatch or a voice command. 1Control ENTRY offers management and access control functions that can be managed via a simple web interface.

1Control ENTRY is the perfect solution for companies, co-working spaces, car parkings, condominiums, apartments and more generally for all those situations where it is necessary to manage the passage of people and vehicles through one or more accesses, guaranteeing practicality and safety.

Strengths

- **Suitable for different types of automations**

Electrified doors, lockers, up-and-over doors, shutters, gates and pedestrian gates, automatic barriers, etc.

- **Allows different access methods**

Android and iPhone smartphones, smartwatches, PC web interface, voice commands, phone calls

- **Access management and control**

You can easily manage and control accesses from the App or PC

- **Multiple connection methods**

Wi-Fi networks, Ethernet cable, Bluetooth LE

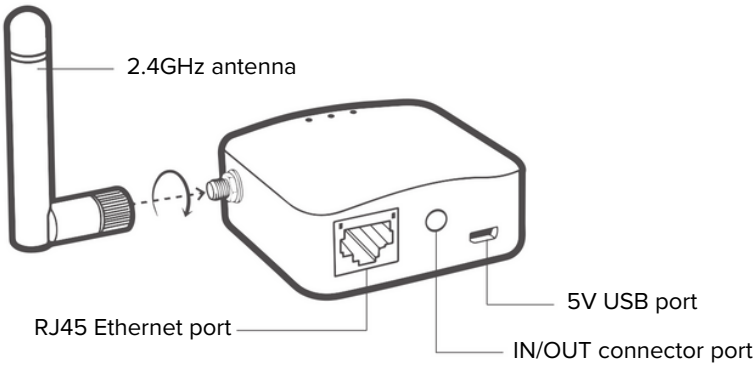
- **Online and also Offline**

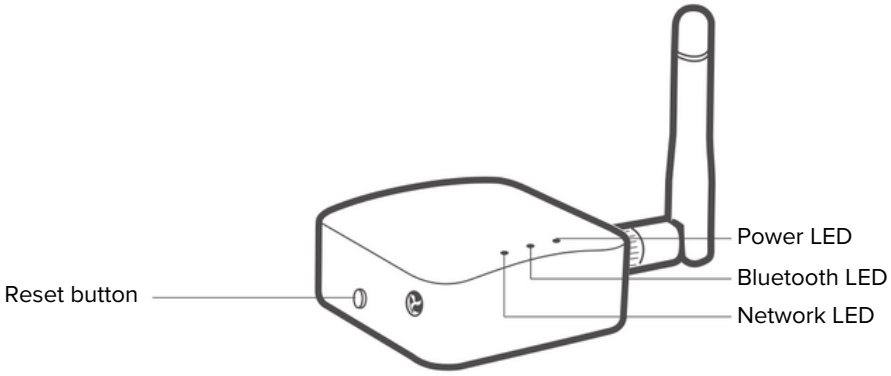
You can connect it to the Internet or use it offline using Bluetooth

Box contents

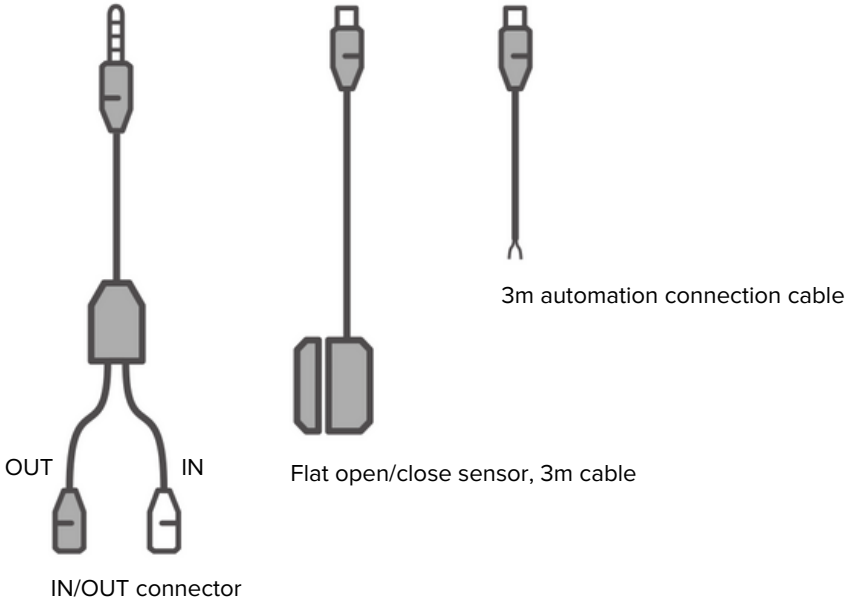
	Quantity
1Control ENTRY device	1
2.4GHz antenna - Wi-Fi / Bluetooth	1
Micro USB cable	1
5V USB power supply	1
Flat open/close sensor, 3m cable	1
Flat open/close sensor, magnet	1
Automation connection cable 3m	1
IN/OUT connector	1

Device

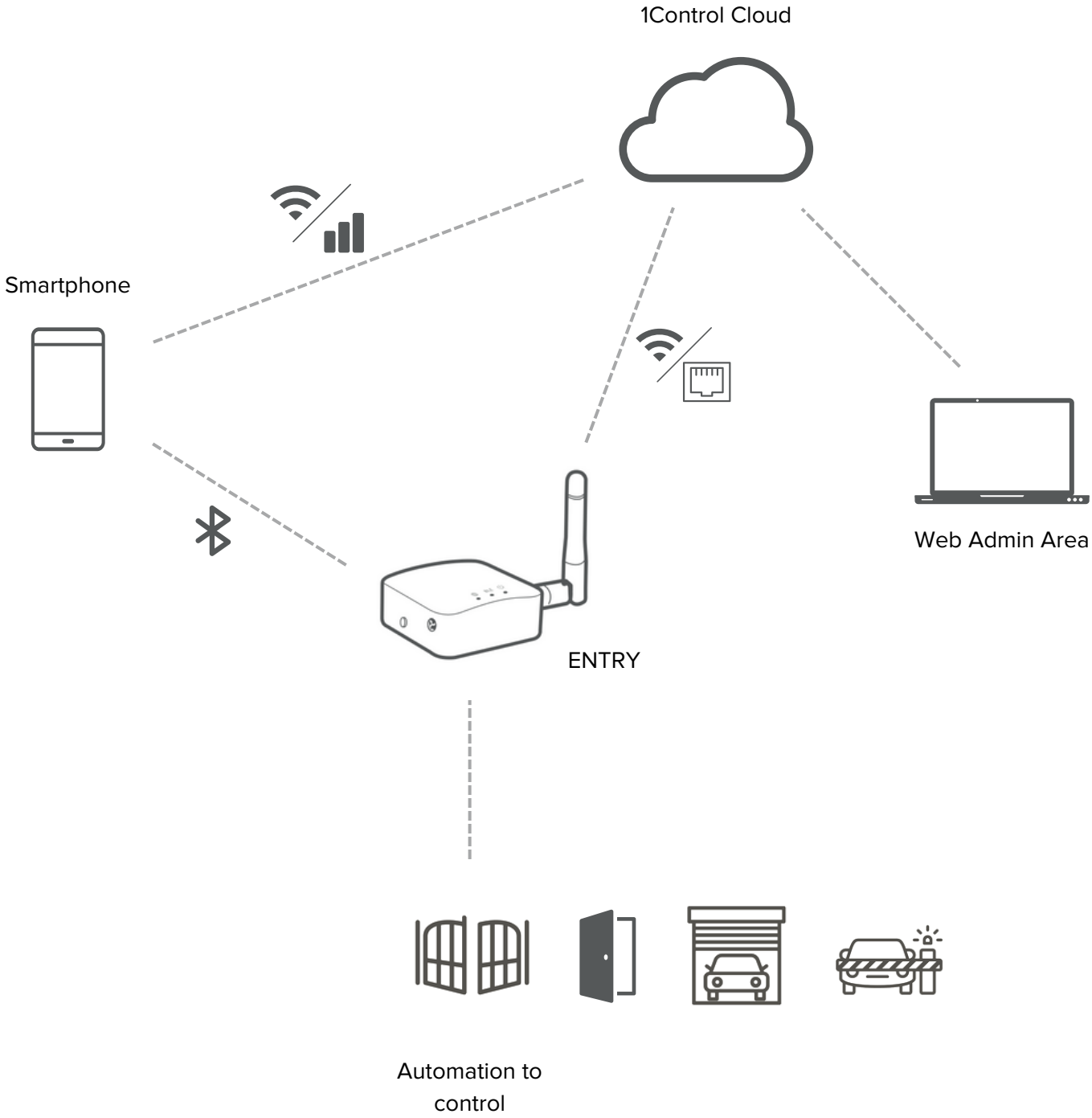




Cables



Connection diagram



App

1Control

The 1Control ENTRY app is called “1Control”, it is free and can be downloaded from the iPhone and Android Stores.

It is compatible with:
- iPhone 6 or newer smartphones with iOS 13 or higher
- Android 5.0 or newer smartphones with Bluetooth LE 4

The "1Control" app is used both to configure the device and to operate an automation via Internet connectivity or Bluetooth LE 4.

Administrators and users

- **Administrators**

Has full control of the device, can configure it, operate it, delete other users.
The administrator is the one who connects to the device using the secret PIN code.
The figure of the administrator is designed exclusively for the person (or multiple) who need to install and configure the device.

1Control ENTRY supports up to 30 admins. Once this number is reached, any person who logs in as an administrator (thus using the secret PIN code) overwrites a previously saved administrator.

- **User**

Can operate the device according to the limitations they have received.
User is the one who receives a share created through the web administrative area.

1Control ENTRY supports up to a maximum of 1000 users.

Web Admin Area

If 1Control ENTRY is connected to the Internet, it is possible to manage the users who will use the device through the 1Control Web Administrative Area accessible at:

web.1control.eu

The first time you log in, you need to register using your email address and password. Then you need to connect your 1Control ENTRY to the newly registered user. More than one device can be connected to the same user.

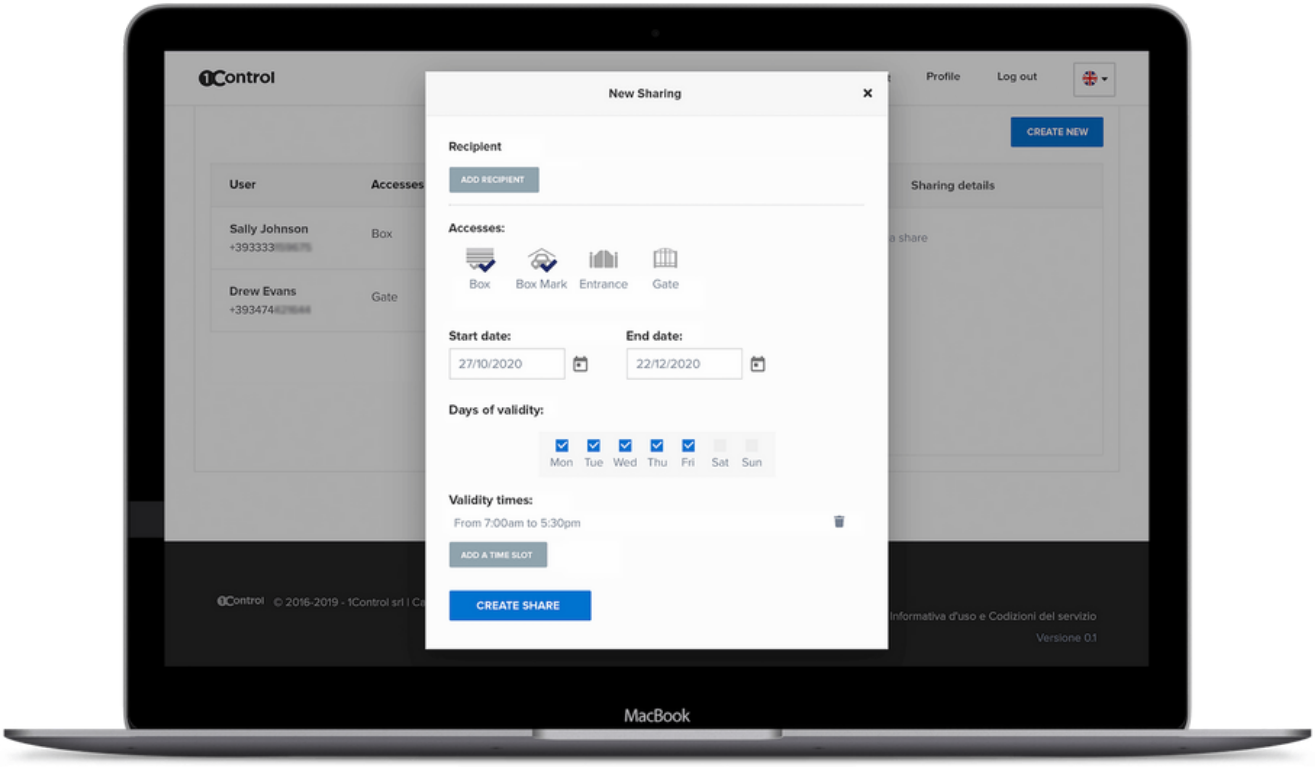
Access management and control

From any PC, you can access your private area on the 1Control ENTRY Cloud Web Admin Area to manage and control access.

It is possible to manage the entry authorizations of employees, drivers, suppliers, customers, etc. by indicating which automations they can operate and with what time slots (days and hours). For example, it is possible to allow Mr. John Doe to enter through the main and secondary doors from February 15th to March 27th, only on Mondays and Wednesdays from 2.00pm to 5.00pm.

1Control ENTRY allows you to assign multiple access methods to the same user, such as the App and phone calls. All access methods are subject to the same limitations set on the user. If a user is granted entry only on Tuesday, the calls will only work on that day and not on the others.

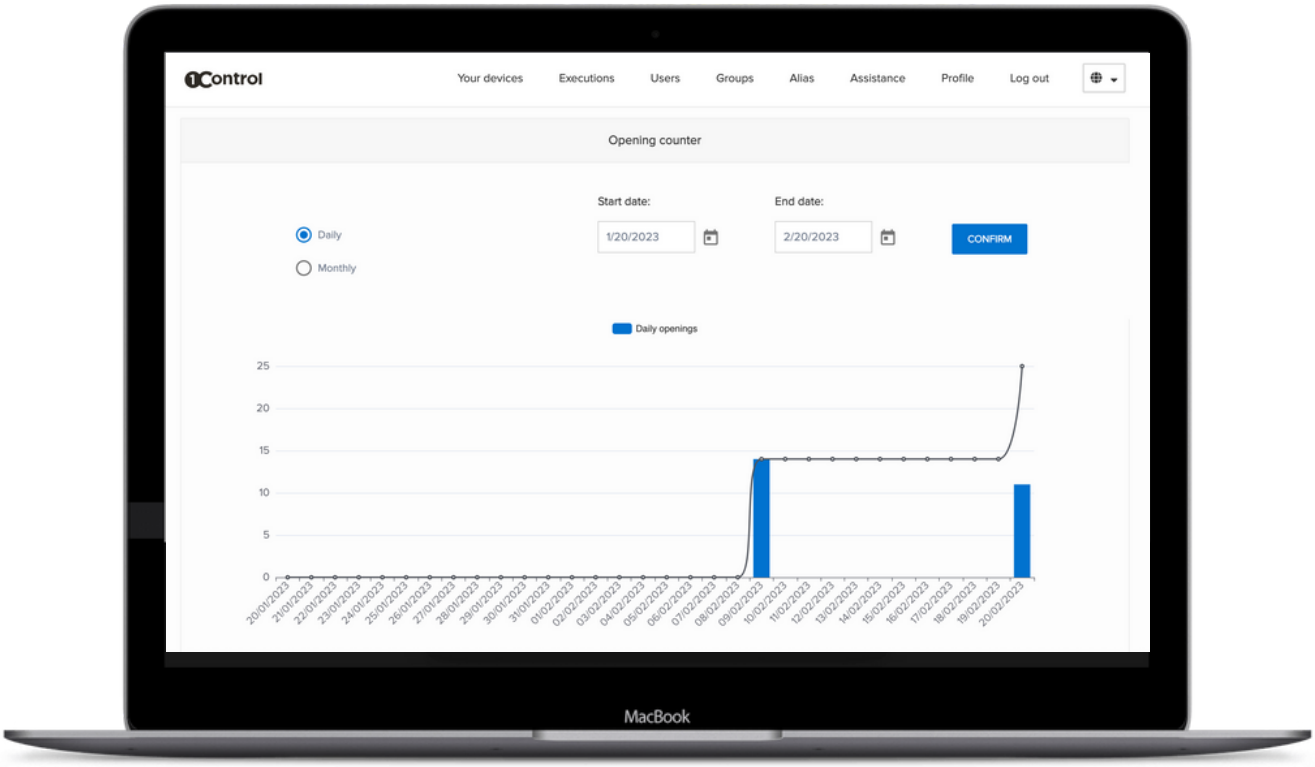
Users can also be managed in groups in order to speed up the assignment of permissions. For example “employee group”, “cleaning group” etc



Automation usage statistics

From the Web Admin Area you can check the number of openings your automation has made. You can also check the history of openings divided by day or by month. The number of openings is tracked even if 1Control ENTRY is offline, because smartphone connectivity is used.

With this information you can easily program maintenance on an automation when a certain number of openings (or work cycles) is reached.



Forced open

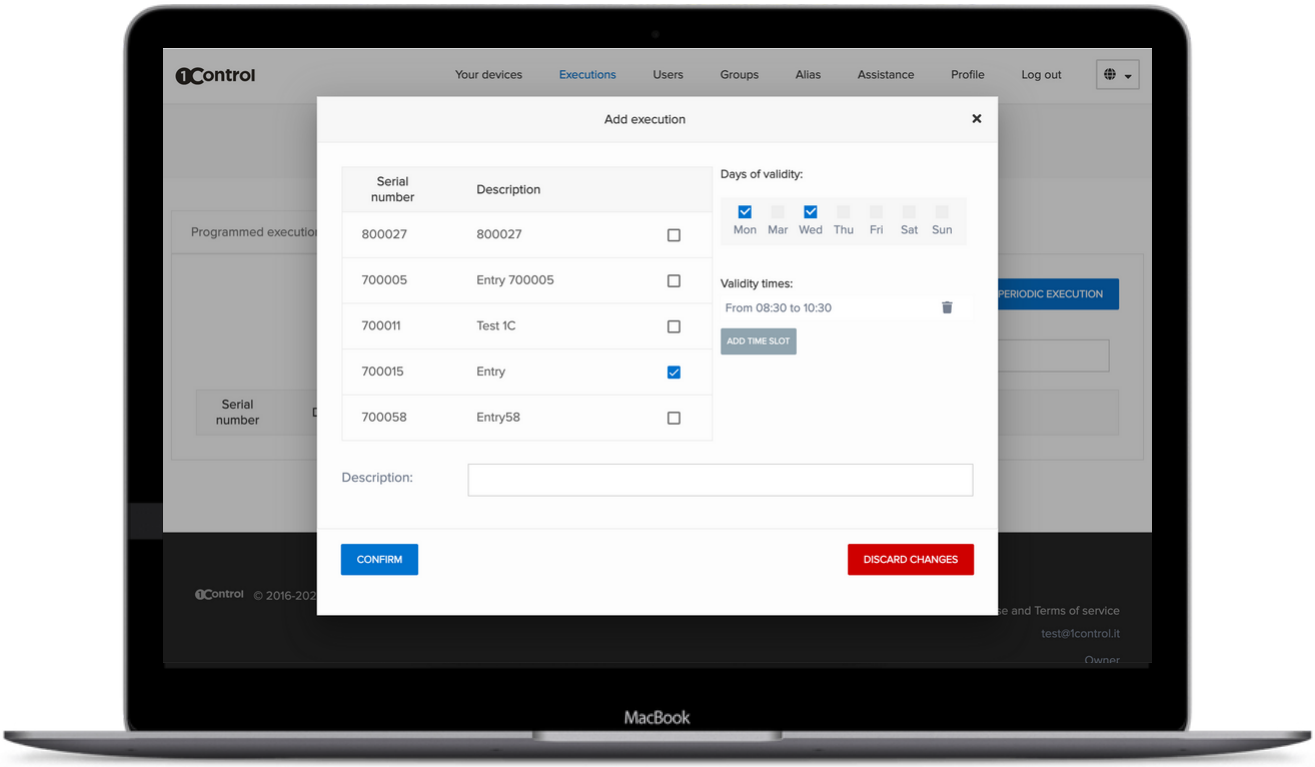
From the Web Admin Area, you can set the "forced open" mode which keeps the automation open until it is disabled. NB: Not all automations support this feature, check first in the manual of your automation if it is supported or if it can be activated.

Scheduled and periodic automatisms

From the Web Administrative Area you can create automatisms that activate the automation at the specified date and time or periodically (e.g. every Tuesday from 2:00 to 3:30 pm).

This way you can allow access by leaving the automation open at certain times, such as when employees arrive at the company.

The automations use the "forced open" function.



Connection to automation

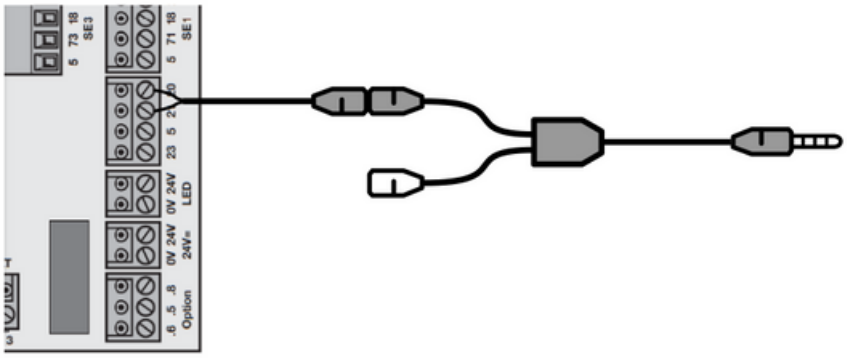
1Control ENTRY is equipped with two contacts:

- output contact
- input contact

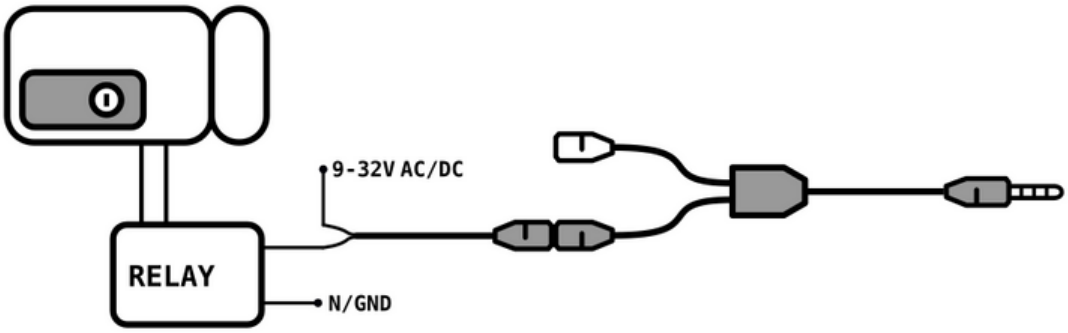
1Control ENTRY must be connected to the automation to be controlled using the output contact. A relay contact is provided on this cable. Normally it is necessary to connect it to the STEP-BY-STEP or START input of the automation to be controlled, or in parallel to an existing opening button. The type of connection may vary depending on the brand and model of the automation, therefore it is advisable to check its manual for the best connection method. For connecting to an electric lock, an external relay must be added to prevent the load from damaging the ENTRY internal circuit.

- Example of connection to an activation contact of a gate control unit

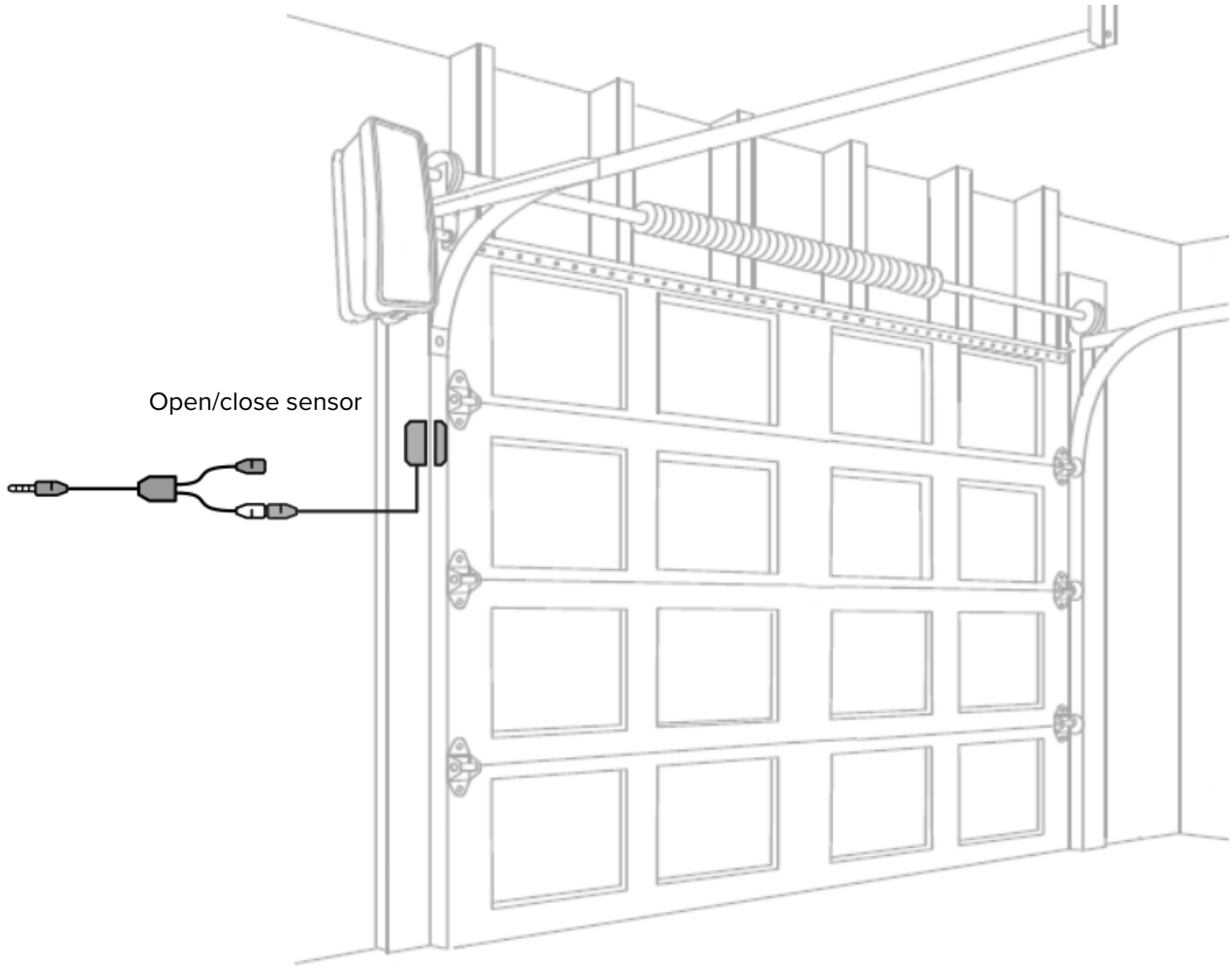
On the 1Control website you can find connection diagrams for the main automations on the market.



- Example of connection to an electric lock using a relay



The input contact must be connected to the open/close sensor supplied and is necessary to detect the closed state of the automation. The open/close sensor must be applied to the automation in such a way that when the sensor is closed (plates approached) the automation is closed. Each position of the sensor other than the closed status position will consider the automation open.



Power supply

1Control ENTRY is powered by 5V voltage supplied through the cable with USB connector and power supply already included in the package.

Configuration

Once switched on, 1Control ENTRY can be configured using the 1Control App via Bluetooth 4 LE. At the first connection with the device you will need to set a secret 8-digit PIN code to protect it. This code should only be disclosed to trusted people who you want to have "administrator access" to the device. Persons who only need to operate the connected automation do not have to use the secret PIN code, but must receive "access authorisation".

Internet connection

1Control ENTRY must be connected to the Internet via a 2.4GHz Wi-Fi network or via an ethernet cable.

1Control ENTRY is factory configured to obtain network connection information via DHCP and Ethernet cable. The ENTRY network interface can be configured using the 1Control App.

Even in the event of moments of lack of connectivity, 1Control ENTRY is able to function correctly through Bluetooth LE 4.0 because it keeps inside all the information necessary for correct operation. During the absence of connection, the changes made from the Web Administrative Area are obviously not propagated to the 1Control ENTRY device, but are saved in the cloud. As soon as 1Control ENTRY is connected to the Internet again, all the changes made are automatically sent to the device.

Security

1Control ENTRY is protected by the most modern cryptographic systems. Communication between ENTRY and a smartphone is protected by state-of-the-art security algorithms based on public keys and symmetric end-to-end encryption with ephemeral keys. CLOUD connectivity is protected by TLS encryption and public key authentication.

The first person who connects to the device via the 1Control App must set an 8-digit PIN code which must be kept secret and which allows the owner full control of the device.

Reset button

If pressed for 1 second:
Reboot the device

If pressed for at least 10 seconds, until all the LEDs flash:
Factory reset the device, all data is erased.

Status LEDs

- **Power led**

Steady on: device powered. Off: device switched off.

- **Bluetooth led**

Steady on: smartphone connected. Off: No bluetooth activity.

- **Network led**

Flashing every 100 ms: not connected
Flashing every 1 seconds: Connected without Internet
Flashing on steady: connected to the Internet

All three LEDs flashing: Device factory reset in progress

Guides and video tutorials

You can find guides, video tutorials and other technical material on the 1Control website:

www.1control.eu/guide/en/entry

Conformity

The manufacturer 1Control srl declares that the ENTRY device complies with Directive 2014/53/EU and Directive 2015/863/EU. The full text of the EU declaration of conformity is available at the following Internet address: www.1control.eu/en/conformity-declarations

Disposal rules

Pursuant to art. 13 of Legislative Decree 25 July 2005, n. 151 "Implementation of Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, relating to the reduction of the use of dangerous substances in electrical and electronic equipment, as well as waste disposal", the symbol of the crossed-out wheelie bin reported on the equipment or on its packaging indicates that the product must be collected separately from other waste at the end of its useful life. The separate collection of this equipment at the end of its life is organized and managed in accordance with current regulations:
a) directly by the user, in the event that he decides to get rid of the equipment without replacing it with new equivalent equipment used for the same functions;
b) by the manufacturer, understood as the person who first introduced and marketed in Italy or resells in Italy under its own brand the new equipment that replaced the previous one, in the event that, at the same time as the decision to get rid of the equipment at the end life, the user makes a purchase of a product of an equivalent type and used for the same functions.

Adequate separate collection for the subsequent sending of the decommissioned equipment for recycling, treatment and environmentally compatible disposal contributes to avoiding possible negative effects on the environment and health and promotes the reuse and/or recycling of the materials it is made of the equipment.

Illegal disposal of the product by the holder entails the application of the administrative sanctions provided for by current legislation.

Specifications

Wi-Fi	802.11b/g/n 150Mbps
Ethernet	1 Megabit
Bluetooth	Bluetooth 4.2 LE
Open/close sensor	Magnetic, REED type
Output contact	Clean contact, settable normally open or closed *
Contact actuation time	Configurable: 1 - 15 seconds
Consumption	< 1.5W
Dimensions	57 * 57 * 25 mm
Maximum number of Users	1.000
Maximum number of Administrators	30
Operating temperature	0 - 40 °C
Operating humidity	5 - 90 %
GTIN/EAN code	TBD

* 1A @ 32V maximum load

Accessories

Description	Code
12-24VDC to 5VDC micro USB power supply	CMP.ELE.UNI.038
2m extension cord for open/close sensor or actuation	CMP.ELE.UNI.101
1m Wi-Fi Bluetooth 2.4GHz waterproof external antenna	CMP.ELE.UNI.039
12V AC relay for electric locks	CMP.ELE.UNI.098
12V DC relay for electric locks	CMP.ELE.UNI.099
24V DC relay for electric locks	CMP.ELE.UNI.100
Cylindrical open/close sensor, 3m cable	CMP.ELE.UNI.097

Spare parts

Description	Code
2.4GHz antenna - Wi-Fi / Bluetooth	CMP.ELE.UNI.106
Micro USB cable	CMP.ELE.UNI.088
5V USB power supply	CMP.ELE.UNI.089
Flat open/close sensor, magnet	CMP.ELE.UNI.085
Flat open/close sensor, 3m cable	CMP.ELE.UNI.083
3m automation connection cable	CMP.ELE.UNI.084
IN/OUT connector	CMP.ELE.UNI.104

Troubleshooting

Smartphone does not detect 1Control ENTRY device

- Make sure you have activated Bluetooth on your smartphone. If it's already on, turn it off and then on again.
- If you have an Android smartphone, activate the GPS (on some models it is indicated as "Position" or "Location"), then close the 1Control App and reopen it.
- Try restarting your smartphone.
- Make sure that 1Control ENTRY is properly powered and turned on: the power LED should be on steady.
- Please make sure you are using the "1Control" app and not the "1Control SOLO" app.

The gate or door does not open

- Make sure you hear a soft "click" from the 1Control ENTRY device when you issue the open command. If you can, use a tester to verify that the output contact has closed.
- Make sure that the operating time of the output contact is sufficient to activate your automation.
- Check that you have correctly inserted the IN/OUT connector into the device and that the operation of your automation is connected to the black OUT connector.
- Consult the automation manual and check that the opening contacts are connected to the correct input. If you need help with the connection diagram, write to support@1control.it

1Control ENTRY does not connect to the Internet

- Make sure you have set the correct connection method (wired or Wi-Fi network). You can check this from the 1Control app settings: in the "Manage your devices" section select your 1Control ENTRY, click "More options" and select "Network configuration".
- If you are using Wi-Fi connectivity, check that it reaches the place where you placed 1Control ENTRY and that the signal is strong and stable.
- Check that there are no blocks on the network, such as firewalls or proxies, which could hinder the correct functioning of 1Control ENTRY. If you have a firewall, create a specific non-blocking rule for the 1Control ENTRY.