Description

1Control SOLO EVO is an electronic device that allows the operation of a radio-controlled automation, such as a gate or a garage, using a smartphone. SOLO EVO is able to copy the automation remote control and therefore to control it behaving like the original remote control.

Control of an automation

SOLO EVO is able to copy the automation remote control and therefore to control it behaving like the original remote control. It is able to copy all fixed-coded remote controls and most rolling-code remote controls, in the 433.0 MHz to 868.0 MHz frequency bands, using the AM and FM modulations. The old low-frequency remote controls, called quartz, are not compatible.
The complete list of compatible remote controls is available on the 1Control website or in the Complete Guide.
To control an automation, it is sufficient to copy a single remote control, it is not necessary to copy the remote controls of all users.
SOLO EVO communicates with smartphone using the Bluetooth LE 4 protocol. Therefore it is not necessary to have an Internet connection to open gate and garage.

4 GATES or GARAGES
50 USERS

Operating distance

The max distance between SOLO EVO and an automation to be controlled varies according to the type of radio-control used. Normally such distance is between 20 and 40 meters.
The max distance between SOLO EVO and a smartphone varies according to the model of smartphone used and is normally about 15-20 meters.
To maximize the range of SOLO EVO it is advisable to place it at least 1 meter from the ground and in a place where there are no obstacles between the user and SOLO EVO.
Reinforced concrete walls or metal boxes can weaken or block the SOLO EVO signal.

Operating conditions

SOLO EVO is resistant to atmospheric agents, is rainproof, snowproof and resistant to sunrays. It is IP66 certified.

Security

When using SOLO EVO for the first time, an 8-digit numeric PIN code must be set. This PIN must be kept secret. PIN code holders are considered administrators of the device. It is possible to reset the PIN by performing a factory reset of SOLO EVO.
The SOLO EVO administrator can invite other users to use an automation, without giving them the PIN code, using the sharing features offered by the app.
The communication between SOLO EVO and a smartphone is protected by latest-generation security algorithms based on public keys and end-to-end symmetric encryption with ephemeral keys.
The communication between SOLO EVO and an automation uses the same security algorithms as the copied remote control. Therefore the degree of security offered in this communication is the same as that of the remote control.
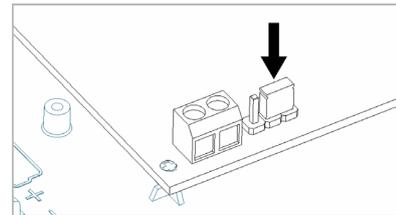
Power supply

SOLO EVO can be powered using 1.5V alkaline type C batteries (already included in the package) or by external power supply with voltage between 12V and 24V DC or AC.
SOLO EVO has a maximum current consumption of 100mA.

Battery power supply

To power SOLO EVO using batteries, set the jumper selector on the board to the "BT" position and remove the battery protection tab.

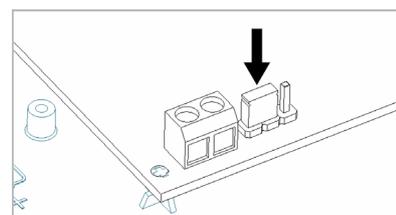Close the device using the 4 screws provided in the package.

The batteries can be replaced when they are flat. SOLO EVO keeps the copied remote controls and shared accesses in memory even when it is not energized.
You can check the charge status of the batteries using the app. Battery life varies according to the number of drives (openings or closures) made:

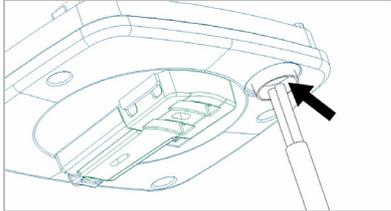| Daily openings	Average duration
4	48 months
10	24 months
20	12 months

12-24V AC/DC power supply

To power SOLO EVO through an external 12-24V source it is necessary to set the jumper selector on the board to the "AL" position.
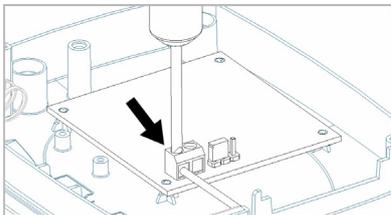
The package includes a cable that can be used to connect the power supply of SOLO EVO. The supplied cable has a length of 4 meters and is resistant to water and atmospheric agents, therefore it can be used outdoors.
The wide supply voltage range accepted by SOLO EVO makes it possible to connect to the power supply provided by most of the

control units for gates and garages.
SOLO EVO is equipped with an already mounted IP66 cable gland that must be used to route the power cable. It is necessary to remove the batteries and puncture the cable gland with a small screwdriver before inserting the power cable.

Then connect the power supply to the screw terminal block, taking care to respect the indicated polarity.

Once the power cable has been inserted and connected, secure it using the small strap supplied and close the device using the 4 screws supplied.

Date and time

SOLO EVO is equipped with an internal clock that is used to check the users' access time rights. The internal clock manages the European daylight saving time independently. The date will be set automatically by the app at the first start.

Data and limitations

SOLO EVO can control up to 4 different radio-controlled automations.
It can be used by 50 people / smartphones, you can buy more users from the app.

App

The "1Control" App is free and can be downloaded from the Stores for iPhone and Android.
It is compatible with the following systems:
- Smartphone iPhone 4S or later with iOS 9 or later
- Smartphone Android with 4.3 system or later and Bluetooth LE 4
"1Control" app is able to manage many 1Control devices at the same time.

First installation

1. Power the device (see chapter Power supply)
2. Download the "1Control" app from your smartphone's store
3. Connect with the app to the SOLO EVO and set a secret PIN code
4. Copy the remote control following the guided procedure by the app
5. Place the SOLO EVO near the automation to be controlled

Copy of a remote control

The copy of a remote control takes place by following the wizard available on the app.
SOLO EVO is able to automatically recognize the type of remote control you are copying and to provide the appropriate copy

procedure through the app.
NB: When copying a remote control it is advisable to be near the relative gate or garage.
The complete list of compatible remote controls is available on the 1Control website or in the Complete Guide.

Shares

Device administrators can share an access stored on SOLO EVO via the app.
All users who wish to receive a share must register via the app by entering their phone number. NB: it is not possible to use the same phone number to register from different smartphones.
The administrator can share an access to a user by indicating his phone number. It is possible to set time constraints (start and end date, days of the week, hours of the day) to shares.
To share an access it is not necessary to be near the device, this operation can also be performed remotely.

Factory reset

You can completely delete all data stored on SOLO EVO by restoring it to factory conditions. To reset, press and hold the internal key for more than 10 seconds. Resetting the device can take up to 2 minutes.
The restoration of the device causes the loss of all the memorized remote controls and invalidates all the shares created.

After sales service

In case of problems write to support@1control.it or call the number +39 329 169 7057

Pack contents

1 SOLO EVO device
1 IP66 cable gland (already installed)
1 wall or pole fastening support
2 wall fastening anchors with relative screws
2 pole fastening clamps
2 batteries (already fitted)
4 locking screws
1 power cable 4 meters

Other details

Dimensions: 39x102x134mm
Weight (batteries included): 350g
GTIN/EAN Code: 8056772850154