

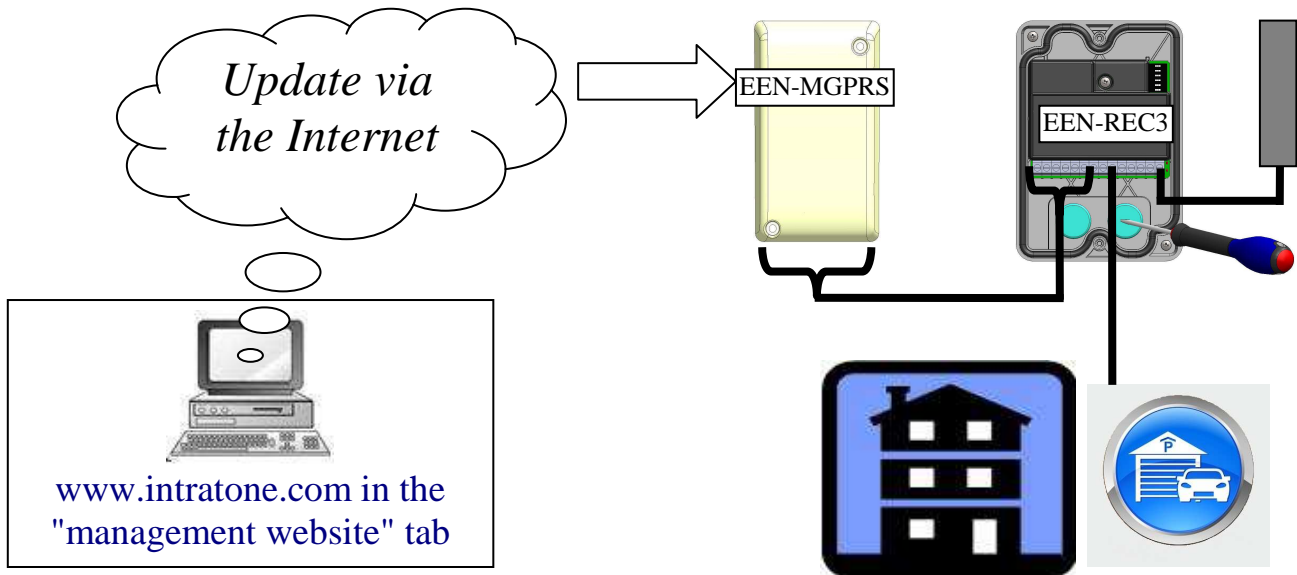
# User guide

## For the EEN-BOXECO-HF kit

### General points

The complete pack for car-park access control consists of a waterproof RF receiver (EEN-REC3) with a 868Mhz RF antenna and a GPRS module (EEN-MGPRS)

Unlimited updates and event logging for a period of ten years after initial installation of subsequently rechargeable equipment is available to you.



- **DO NOT USE OTHER USER AND INSTALLATION GUIDES**

### Principle of how the EEN-REC3 receiver works

#### General points :

- The EEN-REC3 receiver enables control of two car park access points: "ENTRY" and "EXIT" and works with the 2-and 4-channel 868MHz RF remote controls.
- The GPRS module enables the equipment to be programmed via the website: [www.intratone.com](http://www.intratone.com)
- When controlling the 2 accesses, the anti-passback function is available using the switch settings.
- It is waterproof and can be attached to an outside wall.

#### The RF 868 remote control opens two doors, "ENTRY" and "EXIT":

These 2 doors are controlled via 2 "CT" relays fitted to the receiver card.

Pressing a button on the remote control will activate one of these two "ENTRY" or "EXIT" relays:

#### Vehicle Detection:

Activating each "ENTRY" / "EXIT" relay may depend on the use of vehicle detection loops. These loops can be configured separately as "Normally Closed (NC)" or "Normally Open (NO)" by means of switches no's 4 and 5 in the receiver (see section on *switches and led* below).

#### Anti-Passback (only if enabled on the website and on the EEN-REC3 receiver):

The EEN-REC3 receiver can also manage anti-passback conditions (obligation to exit before re-entering) on remote controls set to anti-passback on the site. This handling is set using switches 1, 2 and 3 (see *switches and LED* section below).

**Switch no. 6:** For correct operation, it must always be set to OFF.

## Anti-passback operation

Anti-passback controls the receiver's 2 ENTRY and EXIT doors to prohibit successive entries (entries by several vehicles using the same remote control). The resident must therefore have left via the EXIT door before again being allowed access to the car park via the ENTRY door.

The anti-passback function works by setting an anti-passback time during which any new attempt to gain access via the ENTRY door is systematically denied. Access via the ENTRY door will be authorised again, either after this time has expired, or once the resident has left via the EXIT door.

### **The anti-passback function is only activated with the combined use of:**

- A EEN-REC3 receiver;
- A GPRS module
- Vehicle detection loops on ENTRY and EXIT.

**And it only works with remote controls to which anti-passback apply** (see Website).

This function does not concern any remote controls not programmed to work with the anti-passback function.

Note: The anti-passback is reset each time it is powered on.

## Switches and LED

### **• Switches 1, 2 and 3 define the time of the anti-passback function (+ or - 2 minutes):**

S1	S2	S3	Meaning
OFF	OFF	OFF	No anti-passback handling.
ON	OFF	OFF	Anti-passback set to 05 minutes.
OFF	ON	OFF	Anti-passback set to 10 minutes.
ON	ON	OFF	Anti-passback set to 15 minutes.
OFF	OFF	ON	Anti-passback set to 30 minutes.
ON	OFF	ON	Anti-passback set to 45 minutes.
OFF	ON	ON	Anti-passback set to 60 minutes.
ON	ON	ON	Permanent anti-passback.

### **• Switches 4 and 5 define the operation of the vehicle detection loops :**

S4	S5	Meaning
OFF	OFF	Loop Normally Closed (LC) or no loop installed.
ON	ON	Loop Normally Open (LO)

### **• Switch no. 6: It must always be set to OFF.**

Any change to this switch resets the rolling codes and anti-passback.

### **• LED: The LED shows the operating status as follows:**

Status	Meaning
Flashing for 1 to 2 sec	Power on or after changing switch 6: Deletion of anti-passback and rolling code.
Permanently OFF	The receiver has no power supply: Check the connection to the receiver's + and - terminals.
Flickering	The central unit is not connected correctly to the receiver's D + and D- terminals.
Permanently ON	Correct communication with the central unit: Diagnosis displays "RF".
Goes off for 1 second	Correct reception of the RF emission by a 868 MHz remote control.



- ☞ The receiver **must not be enclosed** in a metal case or placed behind a protective area that uses metallic wire netting. If this is unavoidable, you must connect an 868 MHz antenna which you install on the outside.
- ☞ To achieve satisfactory operation, there must be no metal obstacles between the active aerial and the normal position used for operating the remote controls. It is therefore preferable to **fit the receiver in a high location** to avoid obstacles (e.g. metallic wire netting).
- ☞ **Drill the holes as accurately as possible in the cable pass through to prevent any water seeping into the receiver.** Failure to comply with this requirement will void the warranty.

#### Notes:

- If the **range** of the remote controls is too **weak** (signal not detected by the EEN-REC3 receiver): place the aerial in several locations to find the best position (if possible in an open area away from metal parts in order not to interfere with the reception).
- Never connect the V.P. terminals (Vehicle Present) directly to the mains power supply. These terminals detect a change of state (voltage-free contact) from vehicle presence detection systems.
- Never connect the relays' C1/T1 or C2/T2 terminals directly to a power supply. These relays supply a voltage-free contact relay designed to be connected to a pushbutton-type input to the devices that need controlling. If these devices do not have an input of this kind, use an intermediate power relay of the correct capacity.
- **To use the anti-passback function:** Set an anti-passback value using switches No. 1 to 3 and correctly connect the two entry and exit relays. Remember in particular that the use of the permanent anti-passback requires that the user must have left via the exit door to be able to again gain access via the entry door.
- **To use the entry and exit relays without a vehicle detection device:**
  - Leave switches 4 and 5 in the OFF position.
  - Or, position switches 4 and 5 to ON and by-pass the V.P. terminals.

### Rolling code operation

The receiver manages the **rolling codes** emitted by the remote controls. They are intended to counter attempts at making fraudulent copies of remote controls (through reproducing the signal emitted by the remote control).

Rolling codes refers to different codes emitted on each press of the buttons on the remote control, and which must meet criteria known only by the EEN-REC3 receiver. The security of your site is thus optimal.

It may be necessary **to erase the rolling codes stored on the receiver.** (Fitting the receiver on another site for example). Deletion occurs, each time **you power on**, or when changing the setting of **switch no. 6 to the ON position**(Reset switch **no. 6** to the **OFF position**).

**EC standards:**

The **EEN-REC3** 868Mhz RF receiver complies with CE directive **R&TTE 1999/5/EC**: electrical safety standard **EN 60950(2000)** applied, **EMC standard EN 301 489-3** (2000) applied, **radio standard EN 300 220-3** (2000) applied.

**Cabling:**

The cables used to connect the receiver to a central unit or GSM unit must be fitted in accordance with the instructions describing the level 2, protected environment, of the NF EN 61000-4-4 standard. Please follow the recommendations given in the cabling and connection diagrams, in particular with respect to the distance and the gauge of the cables between the RF receiver and the central unit or GSM unit. If this is not the case, no warranty will be given.

**End of life product recycling:**



The receiver and its accessories must not be disposed of with unsorted municipal waste, but must follow the WEEE (Waste Electrical and Electronic Equipment) collection and recycling channel.

**Sizes**

