



CDVI

Security to Access

A6U48 / A10U48

Mid & Long Range UHF Reader

U4GO

Wireless Signal with
AES128
ENCRYPTION



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**Thank you for purchasing our products and for
the confidence you placed in CDVI.**

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U4Go Range and references

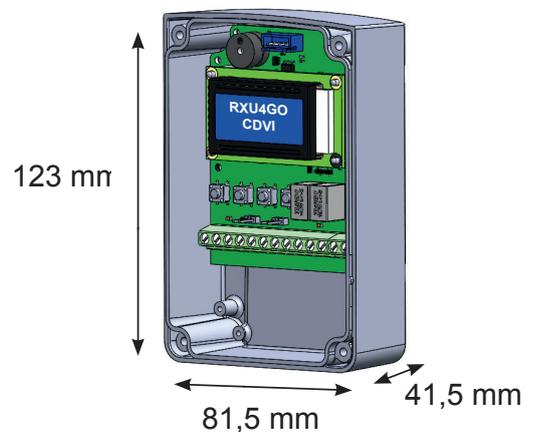
| Part-name | Part-Number | Description |
|-----------|-------------|------------------------------------|
| A10U48 | F0103000125 | READER UHF LONG RANGE U4GO 865 MHz |
| A10U49 | F0103000126 | READER UHF LONG RANGE U4GO 902 MHz |
| A6U48 | F0103000127 | READER UHF 6M U4GO 865 MHz |
| A6U49 | F0103000128 | READER UHF 6M U4GO 902 MHz |
| ATU48 | F0103000129 | ADHESIVE TAG U4GO |
| CHU4GO | F0103000031 | CARD HOLDER U4GO |
| CTU48 | F0103000132 | CARD TAG U4GO |
| PTU48 | F0103000134 | CAR PLATE TAG U4GO |
| RXU4GO128 | F0103000136 | I/F RECEIVER U4GO - 128 |

1] PRODUCT PRESENTATION

U4GO is a high performance UHF (865 - 868 MHz) integrated system perfect for vehicle and people identification. There are two operating modes, standalone or Wiegand output. The U4GO system provides secure access for many applications such parking facility, gated community, campus and rolling stock. The U4GO readers are easy to install, versatile, and perfectly suited for access control systems (Wiegand output). The high security protocol (AES128) RF module can also manage up to 100 remote controls.

RF Module

- Works in two operating modes, stand-alone (relay activation) or Wiegand output (online access control)
- **Stand-alone mode:** Manage up to 7560 UHF credentials and 100 remote keys
- **Wiegand mode (26-, 30- or 44-bit supported):**
Maximum UHF credentials and remotes management depends on the capacity of the access control system
- Relay operating modes (2 x 24 VA - 48 VDC rated relays):
Pulse, step, delayed (delay from 1 sec. to 23 h : 59 min)
- Operating frequency range 433 MHz
(Rolling code whit AES128 encryption)
- RS485 wiring between the UHF reader and RF module
(Two UHF readers supported per RS485 port)
- Power requirements: 12/24 VAC/DC
- Current consumption: 25 to 50 mA (max) @ 12 VDC
- Operating temperature: -10°C to 60°C
- Weight: 65 g
- IP55 enclosure protection
- Demodulation GFSK
- Sensitivity (for good signal): -115 dBm



Wireless Signal with
AES128
ENCRYPTION

UHF Readers

- Operating frequency range of 865 - 868 MHz
- Detection range in open space:
A6U48: (6 m) and A10U48: (10 m)
- RF output power: Up to 30 dBm (adjustable)
- Vehicle moving speed : 50 mph (80 Km/h)
- Current consumption: 350 mA (max. 650 mA)
- Operating temperature: -25°C to 80°C
- Weight: A6U48: 0.9 Kg and A10U49: 2,4 Kg
- Protocol tag supported: ISO18000-6B, ISO18000-6C, EPC C1G2
- Transmission type: FHSS
- Dimensions: A6U48: 235 x 235 x 57 mm
A10U48: 445 x 445 x 55 mm



3] PACKAGE CONTENTS

This chapter details how to install and setup the U4GO A6U48 or A10U48 .

The box contains:

- One A6U48 or A10U48 antenna
- Universal power supply with AC power cord plug
- Wireless Receiver
- Fixing Bracket



Reader with power supply



Fixing bracket



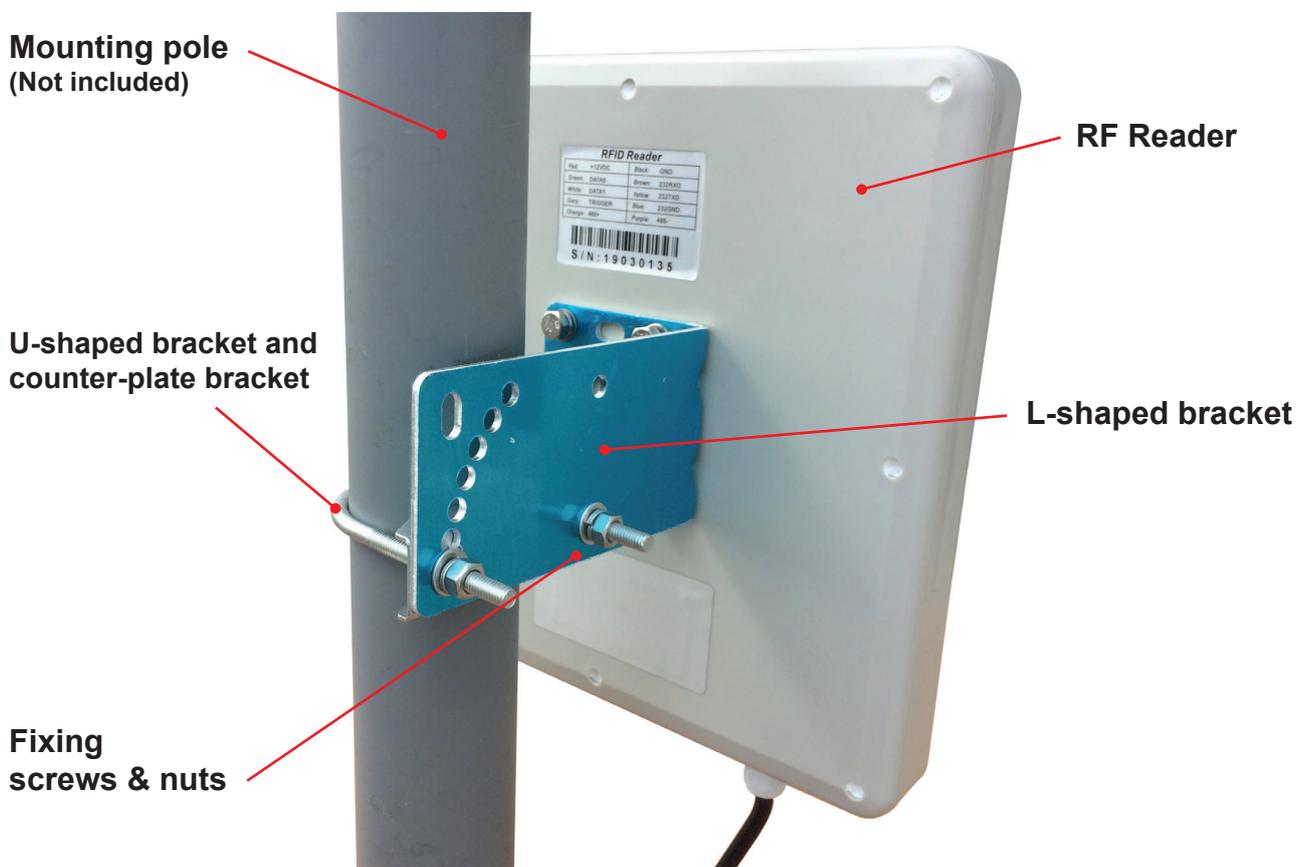
I/F with built-in receiver

Compatible UHF credential

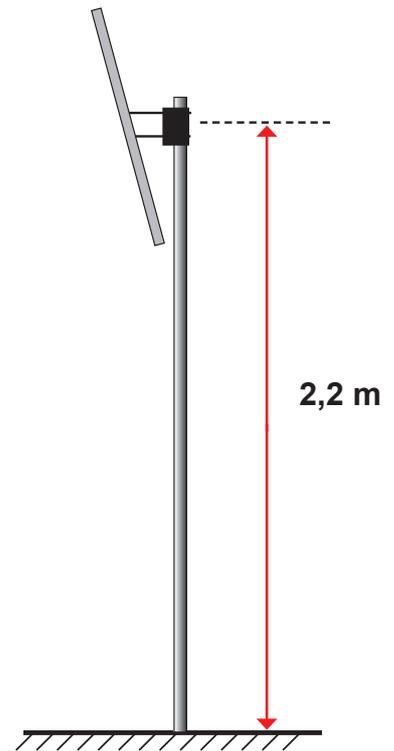
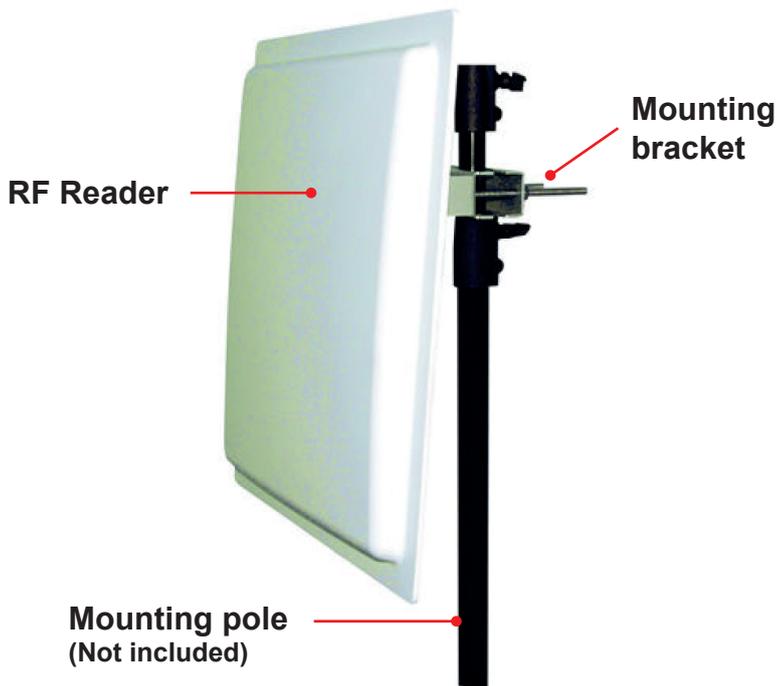
| P/N | Description | Image | Suitable way |
|-------|------------------------|---|--|
| ATU48 | ADHESIVE TAG U4GO |  | Stick on the surface of the windshield |
| CTU48 | CARD TAG U4GO |  | 1) fixed with card holder 2) handheld by user |
| PTU48 | License plate tag U4GO |  | fixed on the surface of the license plate |

4] MOUNTING INSTRUCTIONS

A6U48 MOUNTING DIAGRAM

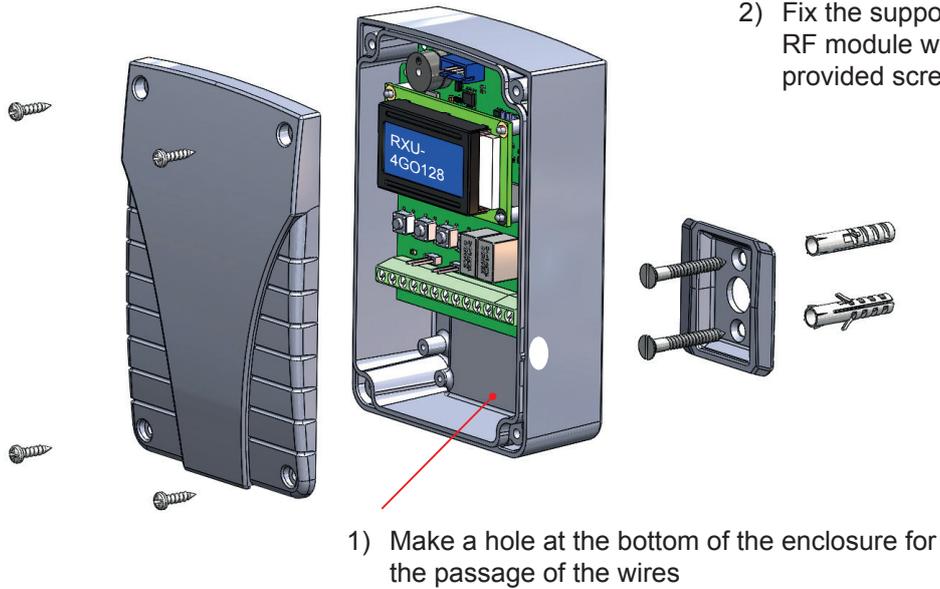


A10U48
MOUNTING DIAGRAM

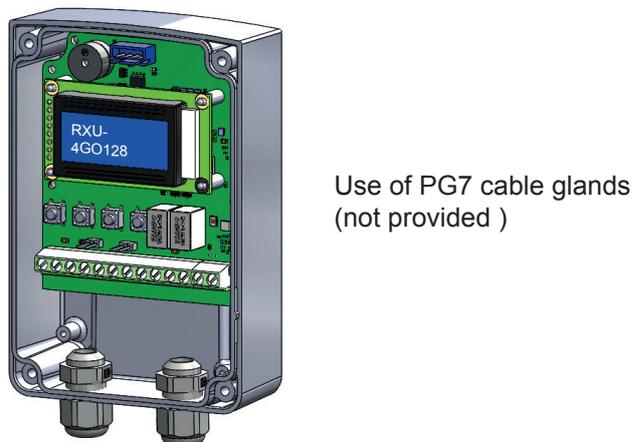


RF MODULE MOUNTING DIAGRAM

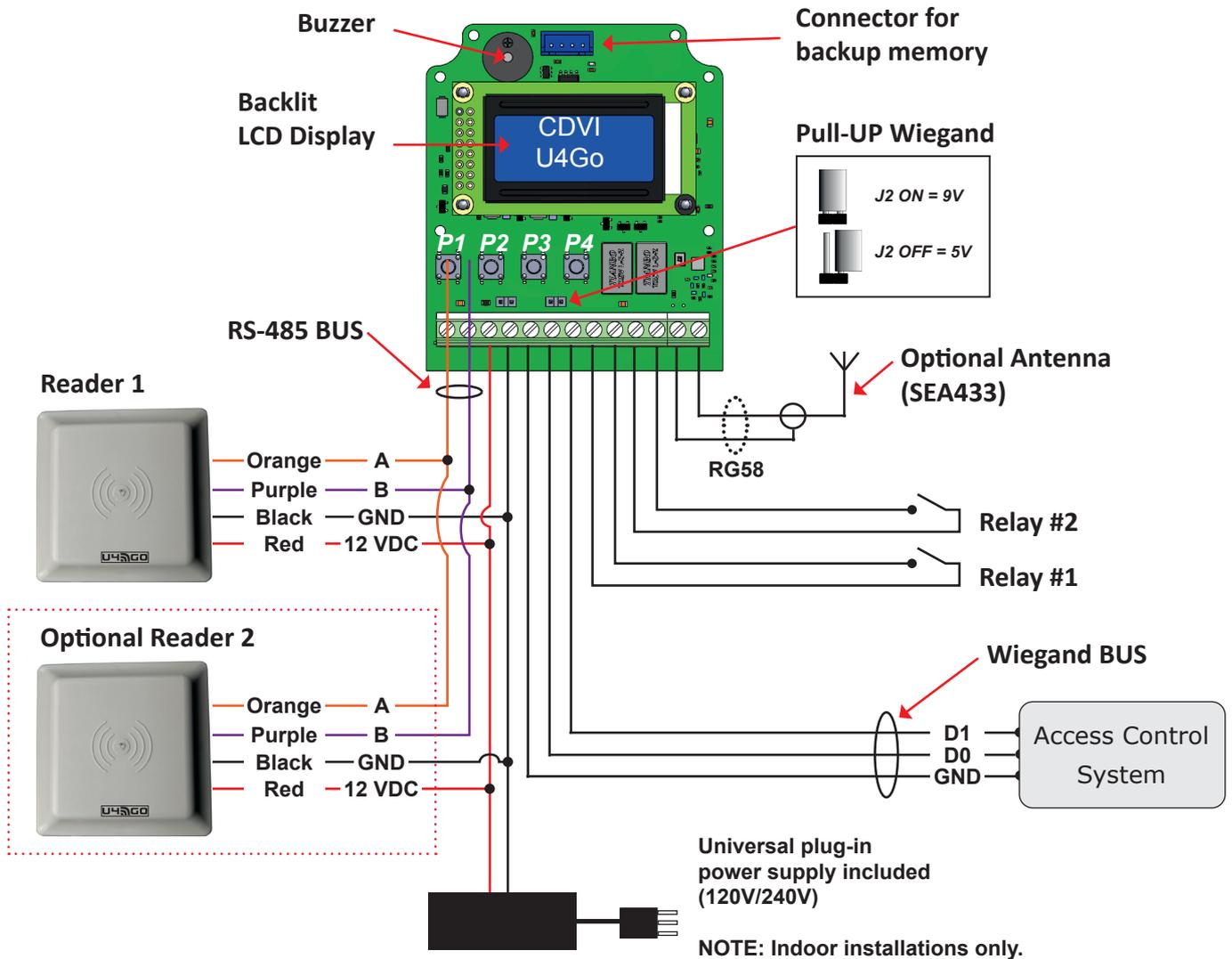
Option A)



Option B)



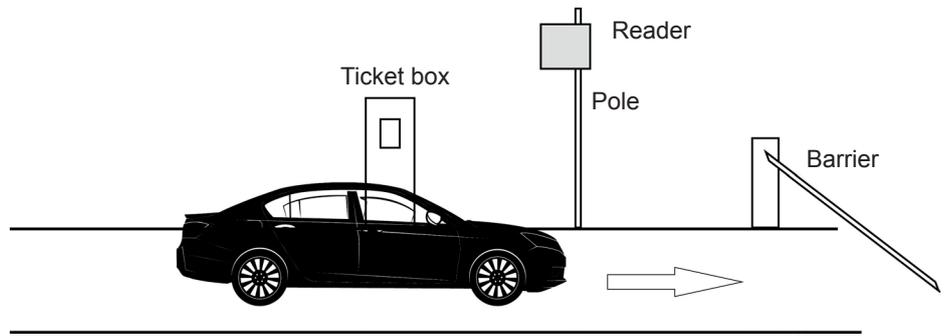
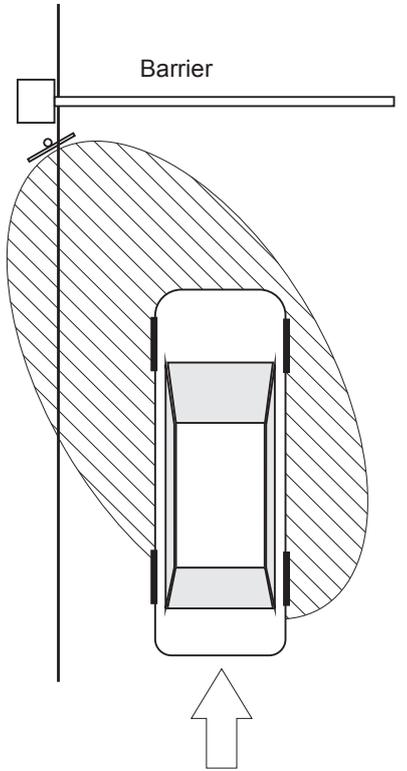
5] WIRING DIAGRAM



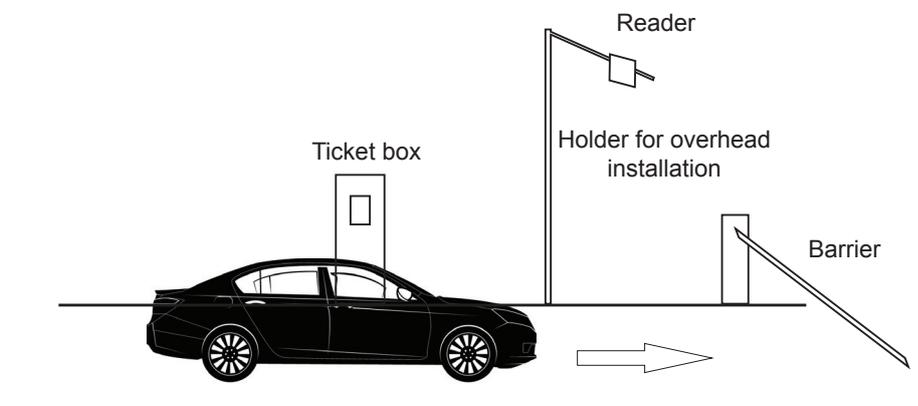
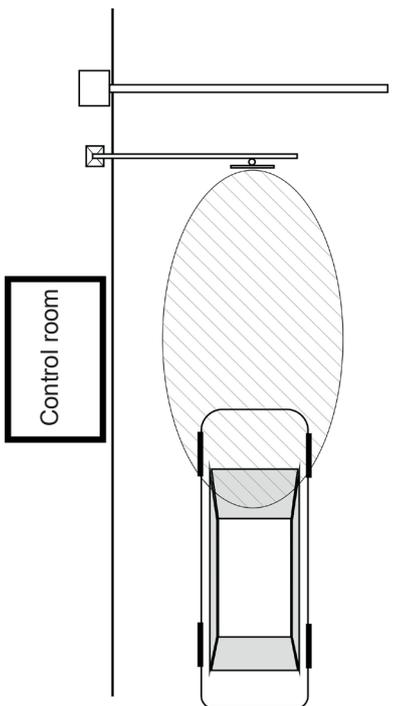
ATTENTION: if a second power supply is used, it is extremely important to make a common GND connection between the 2 readers, otherwise could arise voltage level differences so high to damage the I/F RS-485 of the readers. Same thing if are used separate power suppliers for the reader and for the receiver. It is also recommended to connect the readers to a stably power supply before turning on the system.

| Description | Wire type | Optional extension size | Maximum length |
|--------------|------------------------------|--|----------------|
| RS485 BUS | 2 conductors (RS485 bus) | 24AWG (0,51 mm ²) | 1220 m |
| | 2 conductors (Power supply) | 18AWG (1,02 mm ²) | L1 = 32 m MAX |
| Wiegand BUS | 3 conductors Belden 9553 | 22AWG (0,64 mm ²) to 18AWG (1,02 mm ²) | 150 m |
| Power supply | 2 conductors | 18AWG (1,02 mm ²) | L1 = 32 m MAX |

Side Installation

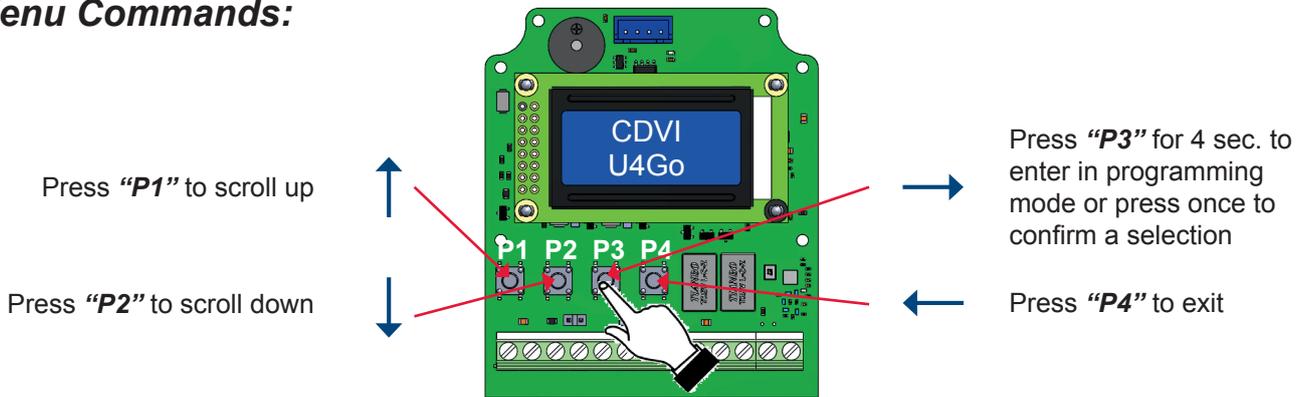


Over-Head Installation

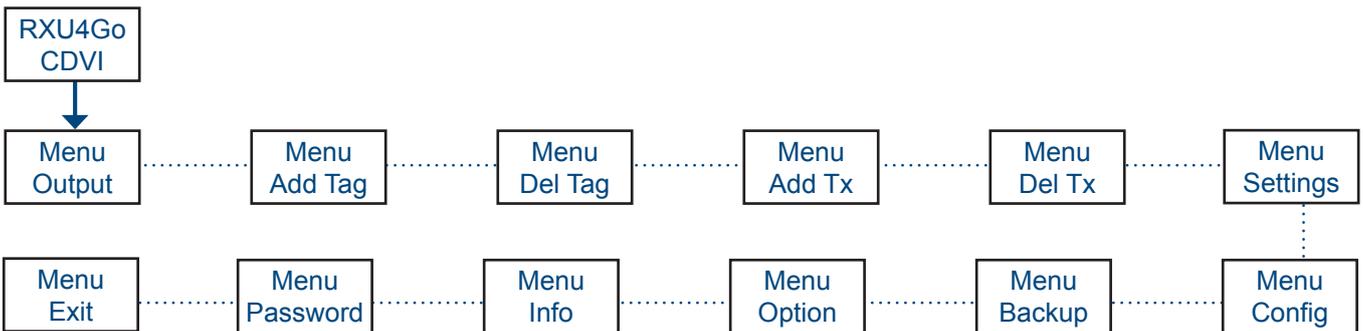


6] PROGRAMMING

Menu Commands:



U4GO Menus



The next steps explain in detail the different menus and their configurations.

1. Set the operating mode (output)

Scroll to the "menu Output" then press "P3"

| | | | | | | |
|---|---|---|---|---|---|--|
| m | e | n | u | | | |
| O | u | t | p | u | t | |

The U4GO system work in two different operating mode "Output":

"RELAY" mode (stand-alone):

Manage up to 7560 UHF credentials and 100 remote keys in stand-alone (reley activation ONLY).

"WIEGAND" mode

(Connect to online access control system):

Maximum UHF credentials and remotes management depends on the capacity of the access control system.

Select one then press "P3" to confirm

IMPORTANT: The relays won't work in "Wiegand" mode

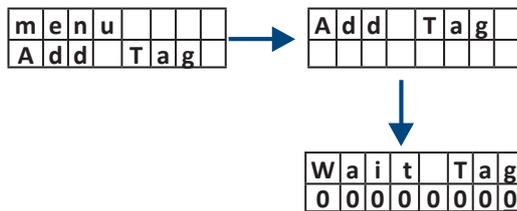
2. Adding UHF credential

There are two ways to register a UHF credential:

- One at a time
- In one block (batch).

2.1 Adding UHF credential one at a time

Scroll to the "Add Tag" menu then press "P3"



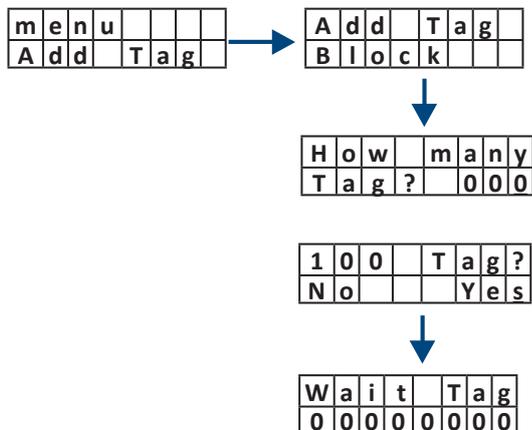
Present the UHF credential to the reader or type manually its serial number (Note: use "P4" to shift left).



2.2 Add UHF credential in one block

You can also register multiple UHF credentials in one block. The serial numbers of each UHF credentials must follow each other in series. Simply confirm the number of UHF credentials to register and then present the first one in the series.

Scroll to the "Add Tag" menu then press "P3"



Type the number of UHF credential to register

Press "P1" to select then "P3" to confirm

Present the first UHF credential of the serie to the reader or type manually its serial number (Note: use "P4" to shift left).



3. Deleting UHF credential

2.1 Delete UHF credential one at a time

Scroll until "menu Del Tag" then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| m | e | n | u | | | | |
| D | e | l | T | a | g | | |

→

Scroll until "Delete Tag" then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| D | e | l | e | t | e | | |
| T | a | g | | | | | |

→

Present the UHF credential to the reader or type manually its serial number (Note: use "P4" to shift left).

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| W | a | i | t | T | a | g | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

↓

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| C | o | n | f | i | r | m | ? | |
| N | o | | | | | Y | e | s |

Press "P1" to select then "P3" to confirm



3.2 Delete UHF credential in one block

You can also delete multiple UHF credentials in one block (batch). The serial numbers of each UHF credentials must follow each other in series. Simply confirm the number of UHF credentials to register and then present the first one in the series.

Scroll until "menu Del Tag" then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| m | e | n | u | | | | |
| D | e | l | T | a | g | | |

→

Scroll until "Delete Block" then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| D | e | l | e | t | e | | |
| B | l | o | c | k | | | |

→

Present the first UHF credential of the serie to the reader or type manually its serial number (Note: use "P4" to shift left).

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| W | a | i | t | T | a | g | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

↓

Type the number of UHF credential to delete

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| H | o | w | | m | a | n | y | |
| T | a | g | ? | | | 0 | 0 | 0 |

↓

Press "P1" to select then "P3" to confirm

| | | | | | | | | |
|---|---|---|--|---|---|---|---|---|
| 1 | 0 | 0 | | T | a | g | ? | |
| N | o | | | | | Y | e | s |

3.3 Delete remote from the list

This is useful when you do not have the remote control in your hand but only its serial number from a list.

Scroll until "menu Del Tx" then press "P3"

| | | | | | | | |
|---|---|---|---|---|--|--|--|
| m | e | n | u | | | | |
| D | e | l | T | x | | | |

→

Scroll until "Delete Tx" then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| D | e | l | e | t | e | | |
| b | y | L | i | s | t | | |

→

Scroll until you find the serial number (red rectangle). Then press "P3" to select.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| P | o | s | : | 0 | 0 | 0 | 5 |
| 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 |

→

Press "P1" to select, then press "P3" to confirm.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| C | o | n | f | i | r | m | ? | |
| N | o | | | | | Y | e | s |

3.4 Delete ALL UHF credential at once

Scroll until "menu Del Tag" then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| m | e | n | u | | | | |
| D | e | l | T | a | g | | |

→

Scroll until "Delete All Tags" then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|---|--|
| D | e | l | e | t | e | | |
| A | l | l | T | a | g | s | |

→

Press "P1" to select then "P3" to confirm

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| C | o | n | f | i | r | m | ? | |
| N | o | | | | | Y | e | s |

4. Adding Remote (Tx)



The operation of the remote controls (Tx) is allowed only to the memorized remotes, both in Relay mode (Stand alone) and in Wiegand mode. See **"1. Set the operating mode (output)"**. You can add up to 100 remote controls. A remote control can activate either relay 1 or relay 2.

There are three ways to register a remote (Tx): one at a time, by associating a button to a specific relay or in one block (batch).

4.1 Add remote one at the time

Scroll until "menu Add Tx" then press "P3"

| | | | | | |
|---|---|---|---|---|--|
| m | e | n | u | | |
| A | d | d | T | x | |

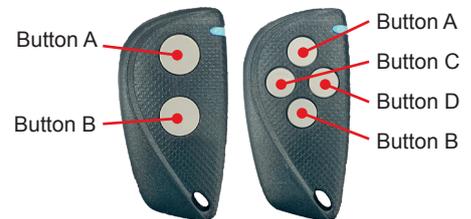
Scroll until "Add Tx" then press "P3"

| | | | | | |
|---|---|---|---|---|--|
| A | d | d | T | x | |
| | | | | | |

Press any button of the remote or type manually its serial number. The serial number is printed in the back of the remote. (Note: use "P4" to shift left).

| | | | | | |
|---|---|---|---|---|---|
| W | a | i | t | T | x |
| 0 | 0 | 0 | 0 | 0 | 0 |

Once added, the button A will be associated to relay #1 and button B to relay #2



4.2 Add remote and associate a button to a specific relay ("Relay" output mode ONLY)

Scroll until "menu Add Tx" then press "P3"

| | | | | | |
|---|---|---|---|---|--|
| m | e | n | u | | |
| A | d | d | T | x | |

Scroll until "Add to Relay 1" or "Add to Relay 2" then press "P3"

| | | | | | |
|---|---|---|---|---|---|
| A | d | d | t | o | |
| R | e | l | a | y | 1 |

| | | | | | |
|---|---|---|---|---|---|
| A | d | d | t | o | |
| R | e | l | a | y | 2 |

| | | | | | |
|---|---|---|---|---|---|
| W | a | i | t | T | x |
| 0 | 0 | 0 | 0 | 0 | 0 |

Press the button you want to associate with the previously selected relay. or type manually its serial number. The serial number is printed on the back of the remote. (Note: use "P4" to shift left).

4.3 Add remote in one block

You can also add many remote controls in one block (batch). The serial numbers of each remote control must follow each other in series. Simply confirm the number of remote control to register and then present the first one in the series.

Scroll until "menu Add Tx" then press "P3"

| | | | | | |
|---|---|---|---|---|--|
| m | e | n | u | | |
| A | d | d | T | x | |

Scroll until "Add Block" then press "P3"

| | | | | | |
|---|---|---|---|---|--|
| A | d | d | | | |
| B | l | o | c | k | |

Type the number of remotes to add

| | | | | | | |
|---|---|---|---|---|---|---|
| H | o | w | m | a | n | y |
| T | x | ? | | | 0 | 0 |

Once added, the button A will be associated to relay #1 and button B to relay #2

| | | | | | |
|---|---|---|---|---|---|
| W | a | i | t | T | x |
| 0 | 0 | 0 | 0 | 0 | 0 |

Press any button of the first remote of the series. or The serial number is printed on the back of the remote. (Note: use "P4" to shift left).

5. Deleting Remote (Tx)

5.1 Delete remote one at a time (will completely remove the remote)

Scroll until
"menu Del Tx"
then press **"P3"**

| | | | | | |
|---|---|---|---|---|--|
| m | e | n | u | | |
| D | e | l | T | x | |

Scroll until
"Delete Tx"
then press **"P3"**

| | | | | | |
|---|---|---|---|---|---|
| D | e | l | e | t | e |
| T | x | | | | |

| | | | | | |
|---|---|---|---|---|---|
| W | a | i | t | T | x |
| 0 | 0 | 0 | 0 | 0 | 0 |

Press any button of the remote or type manually its serial number. The serial number is printed in the back of the remote. (Note: use **"P4"** to shift left).

5.2 Delete remotes in one block

You can also delete multiple remotes in one block (batch). The serial numbers of each remote must follow each other in series. Simply confirm the number of remotes to delete and then present the first one in the series.

Scroll until
"menu Del Tx"
then press **"P3"**

| | | | | | |
|---|---|---|---|---|--|
| m | e | n | u | | |
| D | e | l | T | x | |

Scroll until
"Delete Block"
then press **"P3"**

| | | | | | |
|---|---|---|---|---|---|
| D | e | l | e | t | e |
| B | l | o | c | k | |

| | | | | | |
|---|---|---|---|---|---|
| W | a | i | t | T | x |
| 0 | 0 | 0 | 0 | 0 | 0 |

Press any button of the first remote of the series. or type manually its serial number. The serial number is printed on the back of the remote. (Note: use **"P4"** to shift left).

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| H | o | w | | m | a | n | y |
| T | a | g | ? | | 0 | 0 | 0 |

Type the number of remotes to delete

| | | | | | | | |
|---|---|---|--|---|---|---|---|
| 1 | 0 | 0 | | T | a | g | ? |
| N | o | | | | Y | e | s |

Press **"P1"** to select then **"P3"** to confirm

5.3 Delete remote from a list

This way is useful when you do not have the remote control in your hand but only its serial number from a list.

Scroll until
"menu Del Tx"
then press **"P3"**

| | | | | | |
|---|---|---|---|---|--|
| m | e | n | u | | |
| D | e | l | T | x | |

Scroll until
"Delete Tx"
then press **"P3"**

| | | | | | |
|---|---|---|---|---|---|
| D | e | l | e | t | e |
| b | y | L | i | s | t |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| P | o | s | : | 0 | 0 | 0 | 5 |
| 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 |

Scroll using **"P1"** or **"P2"** until you find the right serial number (red rectangle). Then press **"P3"** to select.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C | o | n | f | i | r | m | ? |
| N | o | | | | Y | e | s |

Press **"P1"** to select, then press **"P3"** to confirm.

5.4 Delete all remotes

Scroll until
"menu Del Tx"
then press **"P3"**

| | | | | | |
|---|---|---|---|---|--|
| m | e | n | u | | |
| D | e | l | T | x | |

Scroll until
"Delete All Tx"
then press **"P3"**

| | | | | | |
|---|---|---|---|---|---|
| D | e | l | e | t | e |
| A | l | l | T | x | |

Press **"P1"** to select then **"P3"** to confirm

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C | o | n | f | i | r | m | ? |
| N | o | | | | Y | e | s |

6. Settings

Scroll until
"menu Settings"
then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| m | e | n | u | | | | |
| S | e | t | t | i | n | g | s |

Scroll to desire
selection then
press "P3"

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S | e | t | t | i | n | g | s |
| I | n | t | e | r | v | a | l |

The interval is the time between each reading of the same serial number which remains in the range of the reader.

Set to: 0, 5, 10, 20 or 30 sec. (default: 10 sec.)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S | e | t | t | i | n | g | s |
| D | e | a | d | T | i | m | e |

The deadtime is the time that a tag must stay out of the detection zone before time to be re-detected at-once.

Set to: 0, 1, 2, 3, 4, 5, 6, 7, 8 or 9 sec. (default 5 sec.)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S | e | t | t | i | n | g | s |
| A | n | t | e | n | n | a | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | n | t | e | n | n | a | 1 |
| A | d | d | r | e | s | s | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | d | d | r | e | s | s | 1 |
| | | 0 | 0 | 0 | 0 | 1 | |

See note (1)

Set the Wiegand code of the antenna:
1 to 9 (default: 1). See note (2)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | n | t | e | n | n | a | 1 |
| | | | | C | o | d | e |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| W | i | e | g | a | n | d | 1 |
| | | | | | | | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | n | t | e | n | n | a | 2 |
| A | d | d | r | e | s | s | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | d | d | r | e | s | s | 2 |
| | | 0 | 0 | 0 | 0 | 2 | |

See note (1)

Set the Wiegand code of the antenna:
1 to 9 (default: 2). See note (2)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | n | t | e | n | n | a | 2 |
| | | | | C | o | d | e |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| W | i | e | g | a | n | d | 2 |
| | | | | | | | 2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| R | S | - | 4 | 8 | 5 | | |
| B | a | u | d | r | a | t | e |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B | a | u | d | r | a | t | e |
| 5 | 7 | 6 | 0 | 0 | | | |

See note (3)

IMPORTANT NOTES:

- (1) At the first power up, the antenna address is populated automatically with its serial number when the first UHF credential will be read by the antenna.

Read a UHF credential to know the address position (1 or 2) of an antenna. The RF module will display "A1" for address 1 and "A2" for address 2 of an antenna.

To replace a defective antenna you must manually reset its address to "00000", connect the new antenna and then pass a UHF badge to automatically populate the new address.

- (2) See section 14 for Wiegand format details.

- (3) The Baudrate is set by factory at 57600 BAUD. In case of different baudrate (9600 BAUD) make reference to the antenna sticker.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| D | e | l | e | t | e | | |
| S | e | t | t | i | n | g | s |

Sets the receiver to the factory default settings.

7. Configuration

7.1 Wiegand Output Settings

Scroll until "menu Config" then press "P3"

| | | | | | |
|---|---|---|---|---|---|
| m | e | n | u | | |
| C | o | n | f | i | g |

Scroll to desire Wiegand setting then press "P3"

| | | | | | | |
|---|---|---|---|---|---|---|
| W | i | e | g | a | n | d |
| B | i | t | | | | |

| | | | | | |
|---|---|---|---|---|--|
| B | i | t | | | |
| 2 | 6 | B | i | t | |

Set the Wiegand protocol to: 26, 30 or 44 bit (default 26-bit)

| | | | | | | |
|---|---|---|---|---|---|---|
| W | i | e | g | a | n | d |
| F | i | l | t | e | r | |

| | | | | | | |
|---|---|---|---|---|---|--|
| F | i | l | t | e | r | |
| A | - | - | D | | | |

Select the buttons that will be use to transmit the Wiegand data.

7.2 Relay Output Settings

Scroll until "menu Config" then press "P3"

| | | | | | |
|---|---|---|---|---|---|
| m | e | n | u | | |
| C | o | n | f | i | g |

Scroll to desire relay setting then press "P3"

| | | | | | |
|---|---|---|---|---|---|
| C | o | n | f | i | g |
| R | e | l | a | y | 1 |

Scroll to desire relay setting then press "P3"

| | | | | | |
|---|---|---|---|---|---|
| R | e | l | a | y | 1 |
| P | u | l | s | e | |

| | | | | | |
|---|---|---|---|---|---|
| C | o | n | f | i | g |
| R | e | l | a | y | 2 |

| | | | | | |
|---|---|---|---|---|---|
| R | e | l | a | y | 1 |
| S | t | e | p | | |

| | | | | | |
|---|---|---|---|---|---|
| R | e | l | a | y | 1 |
| T | i | m | e | d | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| h | h | m | m | s | s | | |
| 0 | 0 | : | 0 | 0 | : | 0 | 0 |

Use "P1" and "P2" to set the values, then "P3" to confirm and shift left, press "P4" to go back.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| R | e | l | a | y | 1 | | |
| D | i | s | a | b | l | e | d |

7.3 Relay activation per remote buttons

Scroll until "menu Config" then press "P3"

| | | | | | |
|---|---|---|---|---|---|
| m | e | n | u | | |
| C | o | n | f | i | g |

| | | | | | |
|---|---|---|---|---|---|
| E | d | i | t | T | X |
| N | # | 0 | 5 | 2 | |

The system shows the total number of remotes memorized. [Example = 52]. Use "P3" to confirm and display the list.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| P | o | s | 0 | 0 | 1 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Scroll the list using "P1" and "P2". Once found the serial number of the remote to modify, press "P3".

| | | | | | |
|---|---|---|---|---|---|
| R | e | l | a | y | 1 |
| A | B | - | - | | |

Select the remote buttons that activate the relay 1. Use "P1" and "P2" to set the values, then "P3" to confirm and shift right. [Example: A & B].

| | | | | | |
|---|---|---|---|---|---|
| R | e | l | a | y | 2 |
| - | - | - | D | | |

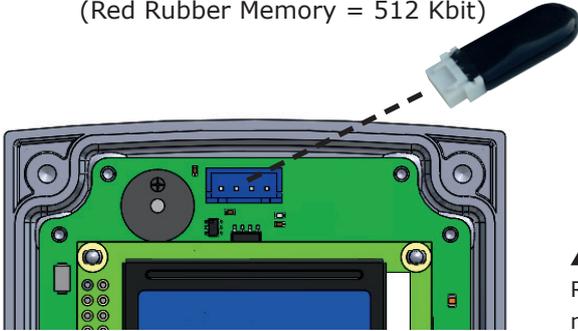
Select the remote buttons that activate the relay 2. Use "P1" and "P2" to set the values, then "P3" to confirm and shift right. [Example: D].

Press "P3" to return to the list or "P4" to exit.

8. Backup

Upload or download the full data-base using an external memory card

- 1) Plug-in the memory into the connector
(Red Rubber Memory = 512 Kbit)



Restoring from the external memory will overwrite ALL module database.

Scroll until "menu Backup" then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| m | e | n | u | | | | |
| B | a | c | k | u | p | | |

Scroll to desire backup option then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| B | a | c | k | u | p | | |
| t | o | | | | | | |

Module to memory card

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| B | a | c | k | u | p | | |
| f | r | o | m | | | | |

Memory card to module

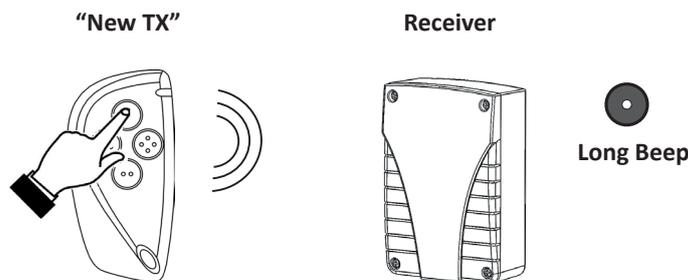
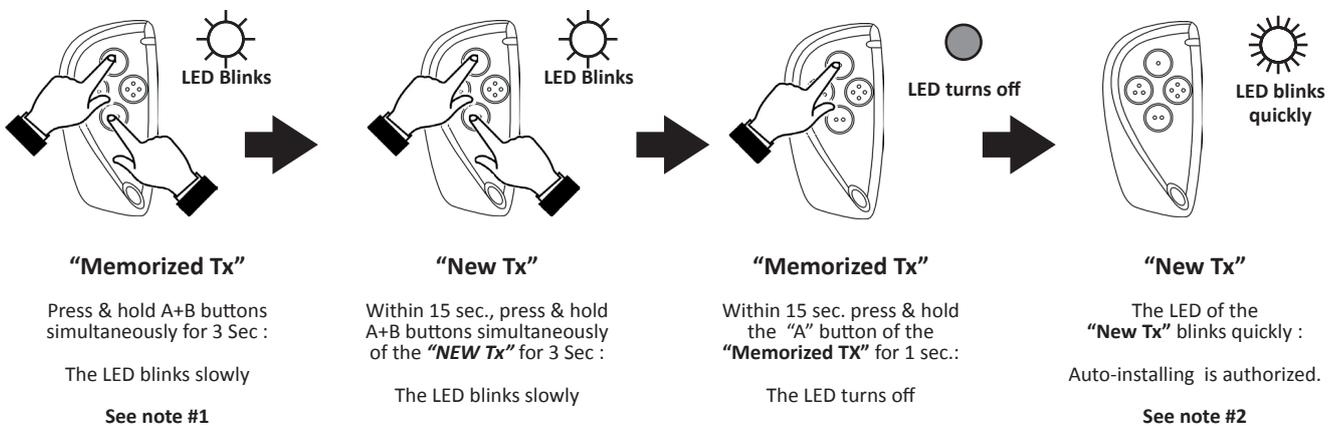
9 . Option

The menu "Option" allows you to enable ("ON " or "OFF") the "Auto-installing" feature.
The "Auto-installing" feature allows you to register other remote controls from any remote control already memorized in the module.

IMPORTANT NOTE: One remote must be memorized in the receiver.

9.1 Memorization of a new remote (Tx)

Place the two remote ("Memorized Tx" and the "New Tx") next to each other then do the following:



Once the new remote has been "Authorized", stand next to the receiver and press button A for 1 sec.

The receiver makes a long beep: The remote has been memorized and is ready for use.
It may take up to 6 seconds for the receiver before hearing the confirmation beep of a "New Tx".

IMPORTANT NOTES :

1. Must be a remote already memorized in the receiver.
2. If you press any button of the authorized "New Tx" out of reception range of the receiver more that 15 times, the autoinstalling property stops and the procedure must be restarted.

10 . Info

Scroll until
"menu Info"
then press "P3"

| | | | | | | | |
|---|---|---|---|--|--|--|--|
| m | e | n | u | | | | |
| I | n | f | o | | | | |

Scroll to desire
info then
press "P3"

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| I | n | f | o | | | | |
| O | u | t | p | u | t | | |

Displays the current output settings:

If output set in "Relay" mode, it will display relays operating settings; pulse, latched or timed

If output set in "Wiegand" mode, it will display system protocol; 26, 30 or 44 bits

| | | | | | | | |
|---|---|---|---|---|---|--|--|
| I | n | f | o | | | | |
| N | . | T | a | g | s | | |

Displays the number of UHF credential that are registered. (7680 max. in stand-alone, "Relay" mode)

| | | | | | | | |
|---|---|---|---|--|--|--|--|
| I | n | f | o | | | | |
| N | . | T | x | | | | |

Displays the number of remotes (Tx) that are registered. (100 max. in stand-alone, "Relay" mode)

| | | | | | | | |
|---|---|---|---|--|--|--|--|
| T | a | g | | | | | |
| L | i | s | t | | | | |

Displays the UHF credential memory position (Useful to delete a specific UHF credential from the list)

| | | | | | | | |
|---|---|---|---|--|--|--|--|
| T | x | | | | | | |
| L | i | s | t | | | | |

Displays the remote control (Tx) memory position (Useful to delete a specific remote "Tx" from the list)

| | | | | | | | |
|---|---|---|---|---|---|---|--|
| I | n | f | o | | | | |
| V | e | r | s | i | o | n | |

Displays firmware version of the module

11 . Password

Scroll until
"menu password"
then press "P3"

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| m | e | n | u | | | | |
| p | a | s | s | w | o | r | d |

Scroll to desire info then
press "P3"

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| a | d | m | i | n | | | |
| p | a | s | s | w | o | r | d |

The receiver manages 2 different passwords: ADMIN and SERVICE and their use can be activated or deactivated. The receiver is supplied with the password disabled.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| s | e | r | v | i | c | e | |
| p | a | s | s | w | o | r | d |

The 2 factory passwords are: Password Admin = **11111**, Password Service = **00000**.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| d | i | s | a | b | l | e | |
| p | a | s | s | w | o | r | d |

Entering the password Admin and only with it, you access the submenu that allows the activation / deactivation of passwords and their modification.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| e | x | i | t | | | | |
| p | a | s | s | w | o | r | d |

NOTE: only with the Service password access the main menu. In the factory settings, the password request is deactivated.

11.1 Wrong Password

If you type a wrong password 5 times, it appears on the display the System number of the receiver: by pressing P3 again, an 8-digit unblocking code (PUK) is requested. To obtain the PUK code, send an email to info@erone.com or call +39-0438-450860. Once the PUK code is set, the password returns to the factory default value.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| s | y | s | t | e | m | N | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

→

| | | | | | | | |
|------|---|---|---|---|---|---|---|
| "P3" | | | | | | | |
| P | U | K | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

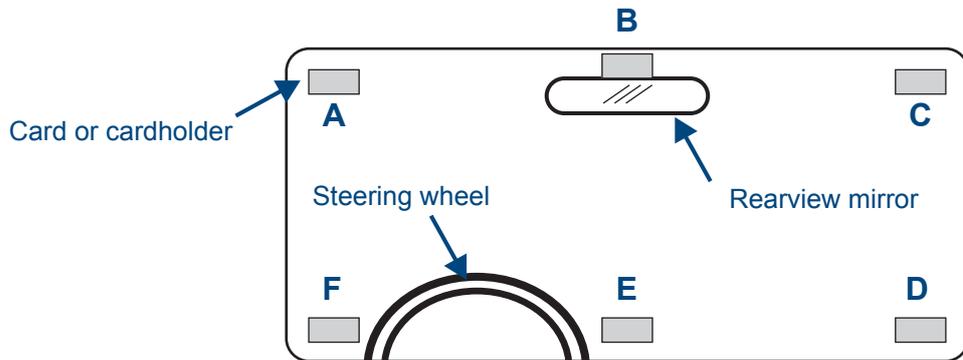
→

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| p | a | s | s | w | o | r | d |
| c | h | a | n | g | e | d | |

12. UHF Credential Installation

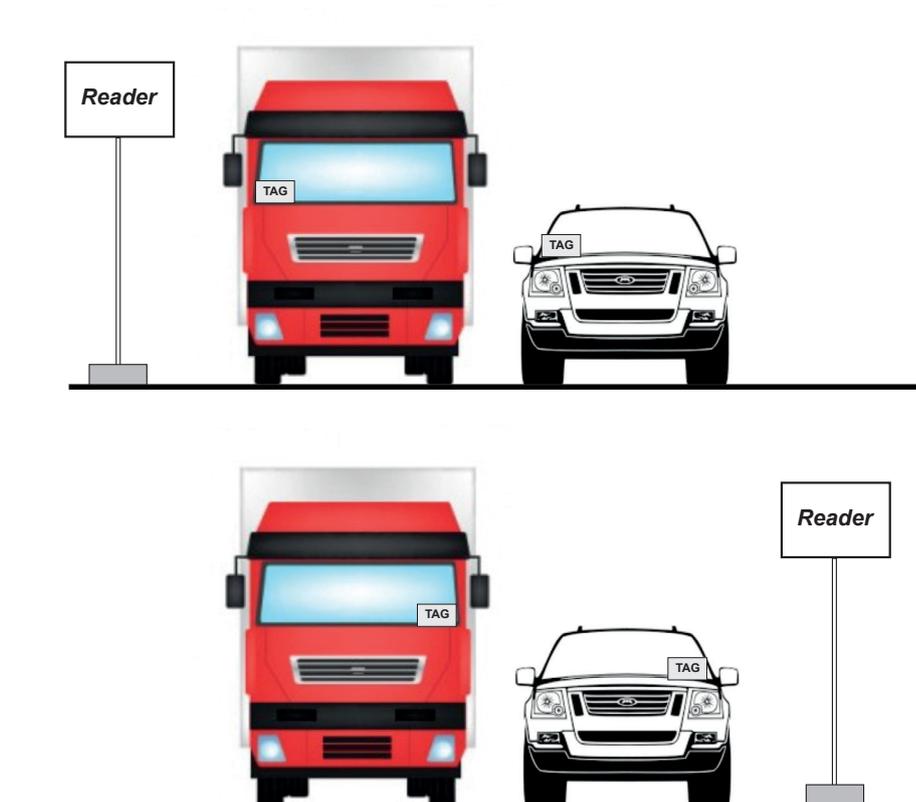
Choose one of the six places (A-F) on the windshield as showed in the figure below to install.

According to the European Standard, some vehicles with metalized windshield have a reserved area (not metalized) for RFID tags so choose position B.

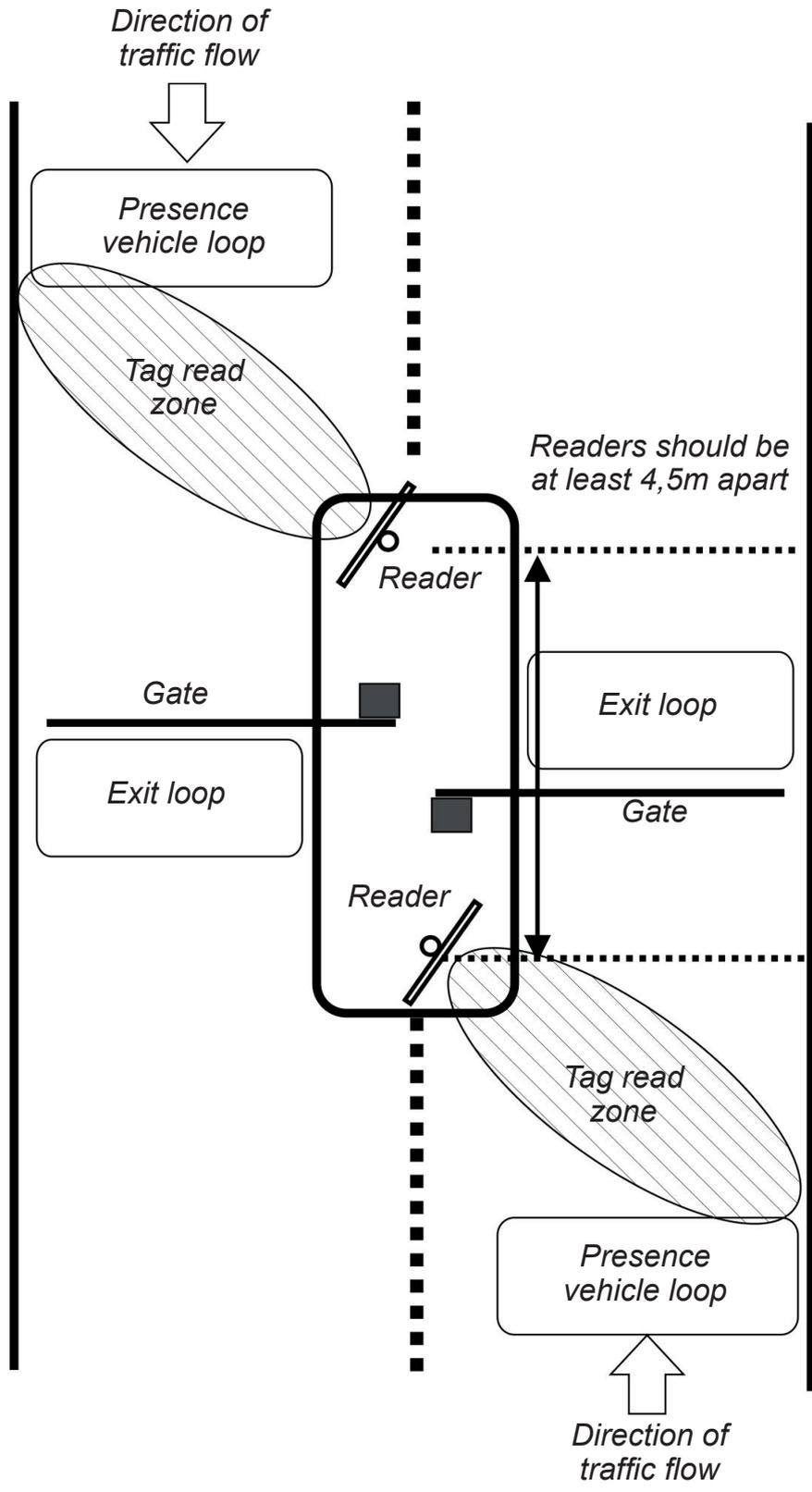


For optimum performance, install the UHF credential on the same side of the reader. (left side A or F, Right side C or D and overhead B or E).

NOTE : When there is a metalized windshield, the read range of the reader will be affected. Please test the performance before using it.



13. Parking or Garage Application Diagram



14. Using and Installing UHF Credential

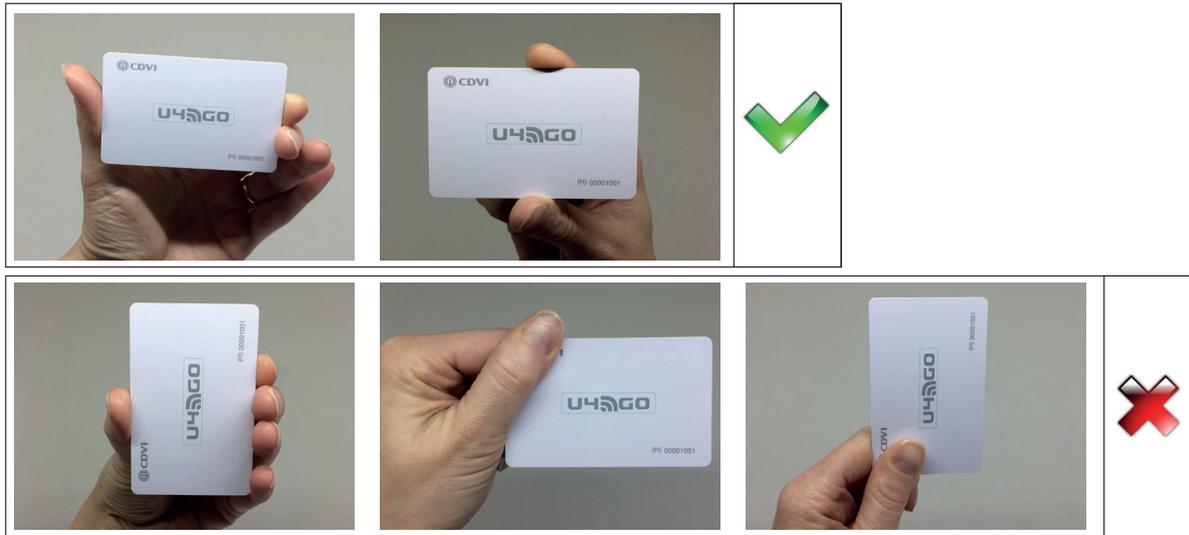
14.1 Regular ISO or Clamshell UHF Credential

Use a card to test reader position for optimal performance.

Attention: the card is very sensitive to the human hand.

The performance of detection can drastically change according to the way of holding the cards.

Look at the following images to understand the best way to hold the card



Hold the card with an outstretched arm, away from the body.

If the card is held near the body the performances can decrease a lot.

A card held in a wallet cannot be detected.

A card in touch with the clothes cannot be read.

14.2 UHF Windshield Sticker Credential (ATU48)

The UHF windshield sticker position is similar to the card, as described above.

Best use on the surface of a window or headlights.

IMPORTANT: Once fixed, the UHF windshield sticker cannot be ripped off and reused.

Please test the performance before installation.

14.3 UHF Licence Plate UHF Credential (PTU48)

Use only for licence plates. Use the screws to fix the tag on the bottom of the licence plate.

Please test the performance before installation.

15. Wiegand Output Formats

The wireless receiver converts the serial number of the UHF credentials and the remotes (Tx) in Wiegand format. The architecture of the Wiegand signal is different according to the number of bits set (26, 30 or 44 bit).

14.1 Wiegand UHF Credential Format

| | | | | |
|------------|-----------------------|-----------------------|-------------------|----------------------|
| Wiegand 26 | Bit 1 | Bit 2 - 5 | Bit 6 - 25 | Bit 26 |
| | Even Parity (1 bit) | [4 bit Address] (*) | [20 bit S/N] | Odd Parity (1 bit) |
| Wiegand 30 | Bit 1 | Bit 2 - 5 | Bit 6 - 29 | Bit 30 |
| | Even Parity (1 bit) | [4 bit Address] | [24 bit S/N] | Odd Parity (1 bit) |
| Wiegand 44 | Bit 1-4 | Bit 5 - 8 | Bit 9 - 40 | Bit 41 - 44 |
| | 0000 (fixed) | [4 bit Address] | [32 bit S/N] | LRC (**) |

(*) Is the address of the receiver set in the settings sub-menu. (**) Longitudinal Redundancy Check

15.2 Wiegand Remotes (Tx) Format

| | | | | |
|------------|-----------------------|----------------------|--------------------|----------------------|
| Wiegand 26 | Bit 1 | Bit 2 - 5 | Bit 10 - 25 | Bit 26 |
| | Even Parity (1 bit) | [4 bit Button] (*) | [20 bit S/N] | Odd Parity (1 bit) |
| Wiegand 30 | Bit 1 | Bit 2 - 5 | Bit 6 - 29 | Bit 30 |
| | Even Parity (1 bit) | [4 bit Button] (*) | [24 bit S/N] | Odd Parity (1 bit) |
| Wiegand 44 | Bit 1-4 | Bit 5 - 8 | Bit 9 - 40 | Bit 41 - 44 |
| | 0000 (fixed) | [4 bit Button] (*) | [32 bit S/N] | LRC (**) |

| Button | Code |
|--------|------|
| A | 1010 |
| B | 1011 |
| C | 1100 |
| D | 1101 |

(*) The 4 buttons remote are in hexadecimal format. See the table beside.

(**) Longitudinal Redundancy Check

WARRANTY AND DECLARATION OF CONFORMITY

Hereby, CDVI Wireless Spa, declares that the radio equipment type A6U48 and A10U48 complies with the Standard 47 CFR FCC Part 15, subpart B. The full text of the Declaration of conformity is available at the following internet address: www.erone.com.

WARRANTY



The warranty period for this product is 10 years, beginning from the manufacturer date. During this period, if the product does not work correctly, due to a defective component, the product will be repaired or substituted at our discretion. The guarantee does not cover the plastic container integrity. After-sale service is supplied at the factory.

IS-A610U48EN, Rev.3 on 31/8/2021



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All the information contained within this document (pictures, drawing, features, specifications and dimensions) could be perceptibly different and can be changed without prior notice.
Reference manual: CDVI_U4GO_IM_02_EN_A4_CMYK.pdf - Printed in Italy - Aug 2021