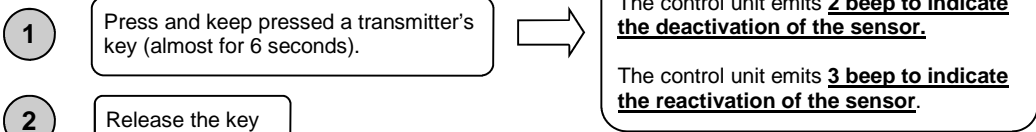


## 5.5 Deactivation light sensor

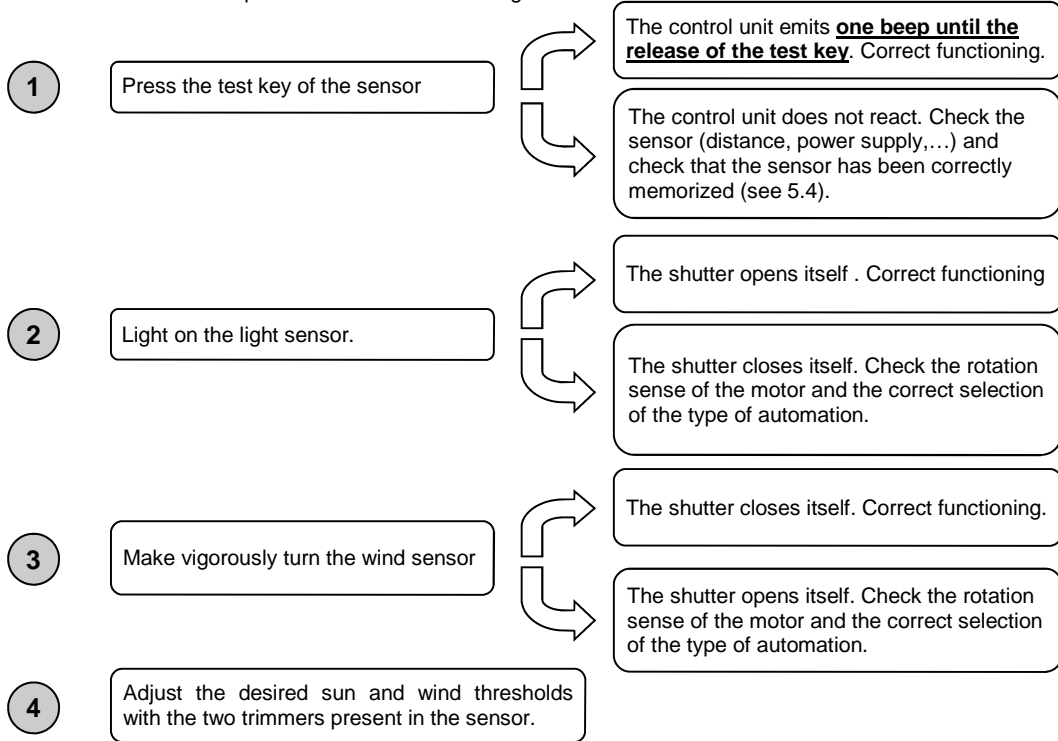
It is possible to deactivate the light sensor functionality in any moment and consequently do not make automatically go up and down the automation as function of the light variation. To deactivate the light sensor get closer to the head of the motor as much as possible and proceed as follows:



Attention: in case of active wind alarm, the deactivation of the light sensor with a transmitter can be not easy. Wait until the wind alarm end and try again.

## 5.6 Radio sensor test

This procedure allows to check the correct functioning of the radio sensor. This operation must be executed with the radio sensor on position of normal functioning.



**GUARANTEE** - In compliance with legislation, the manufacturer's guarantee is valid from the date stamped on the product and is restricted to the repair or free replacement of the parts accepted by the manufacturer as being defective due to poor quality materials or manufacturing defects. The guarantee does not cover damage or defects caused by external agents, faulty maintenance, overloading, natural wear and tear, choice of incorrect product, assembly errors, or any other cause not imputable to the manufacturer. Products that have been misused will not be guaranteed or repaired. Printed specifications are only indicative. The manufacturer does not accept any responsibility for range reductions or malfunctions caused by environmental interference. The manufacturer's responsibility for damage caused to persons resulting from accidents of any nature caused by our defective products, are only those responsibilities that come under Italian law.

# Control unit for tubular motors EUROTEC

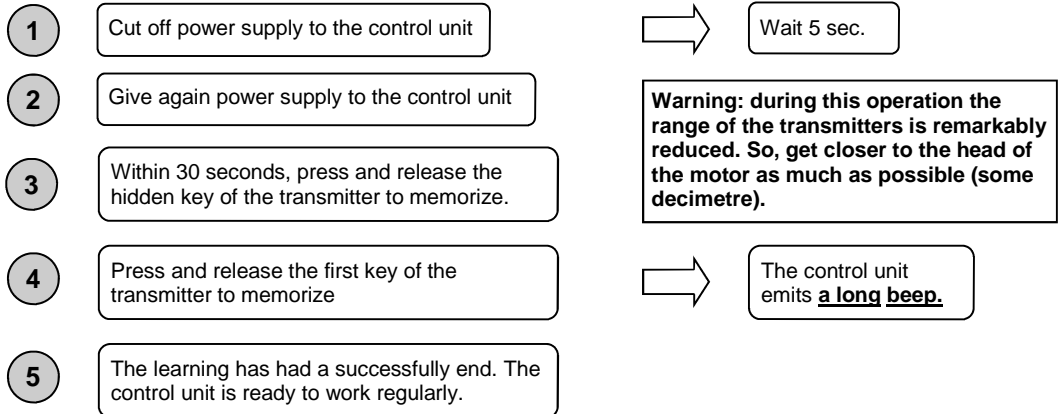
## 1. Introduction

This control unit has been manufactured for controlling motors with internal limit switches. It is a device suitable for controlling roller shutters and sunshades. There is a radio receiver inside for the remote – controlled operation (transmitter type B.RO and CLARUS) compatible with the WINDUO RADIO sensor. It is possible to connect to the control unit 2 buttons for the functions of UP and DOWN. The functioning logic of the control unit is timing type, this means that, to the receipt of a control by user, the control unit carries out an ascent or descent for the whole time of the memorized working time (if it is not interrupted by the user).

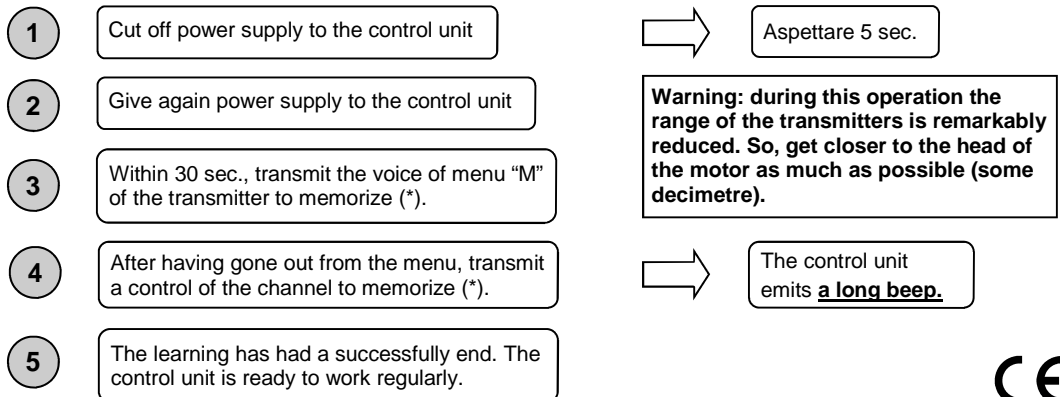
## 2. Learning of the transmitters

### 2.1 Learning of the first transmitter with the selflearning function

#### 2.1.1. Learning of transmitter series B.RO



#### 2.1.2. Learning of the transmitter series CLARUS

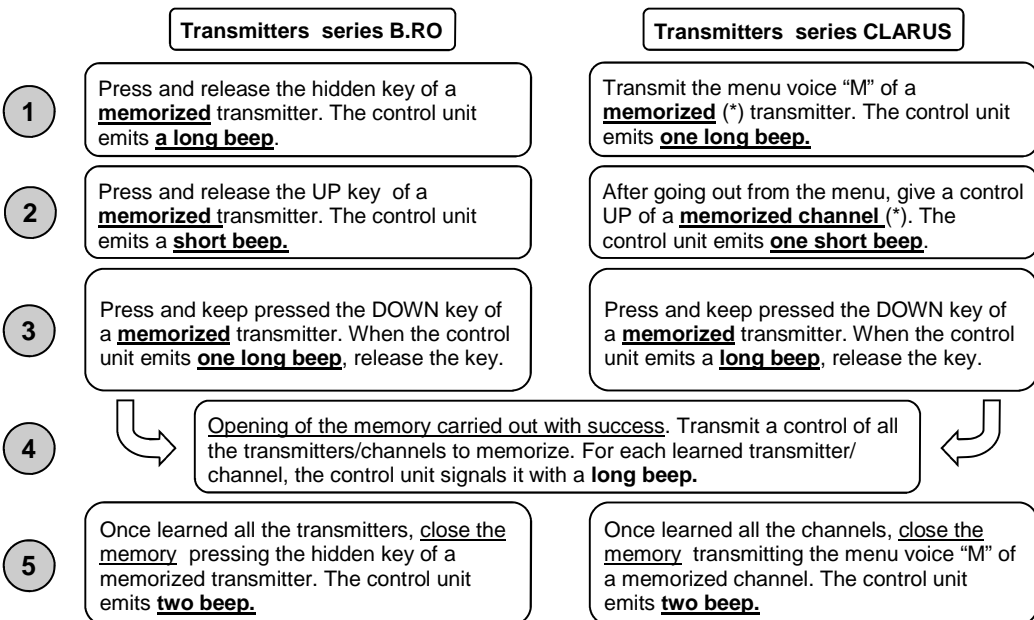


(\*) For the menu functions of the CLARUS transmitter, make reference to the provided instructions.



## 2.2 multiple learning of transmitters by transmitter already memorized

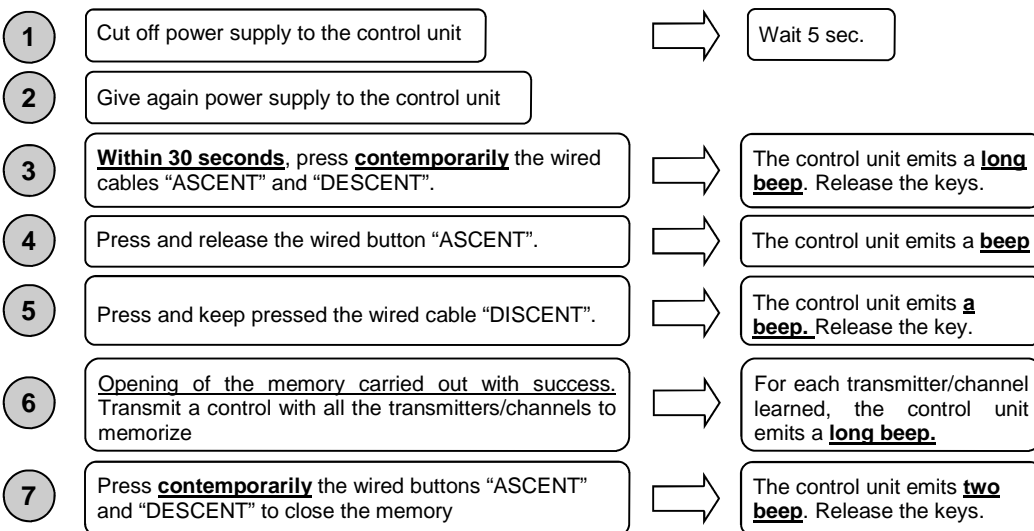
This procedure allows to learn a series of transmitters and can be carried out only by a transmitter already memorized.



(\*) For the menu functions of the transmitter series CLARUS, make reference to the provided instructions. Once opened the memory, both with a transmitter of the series B.RO and CLARUS, it is possible to learn both transmitters; if no signal is transmitted, the control unit automatically exits after 10 sec.

## 2.3 Multiple learning of transmitters with wired keys.

This procedure allows to learn a series of transmitters and can be carried out with wired cables "ASCENT" and "DESCENT". If no signal is transmitted, the control unit goes automatically out after 10 seconds.



## 5. Climatic radio sensor SUN – WIND

The control unit allows to utilize a sun- wind sensor radio type. The control unit integrates the reception of the radio signal with a special protocol and identifies and handles the radio sensor.

Since the meteorological sensors order the opening or the closing of the shutter, it is fundamental to select the correct typology of the shutter (see point 3.3).

### 5.1 SUN radio sensor

The control unit is realized in way to carry out the **opening** of the shutter on the occasion of the transition "**night to day**", while it realizes the **closing** of the shutter to the transition of luminosity "**day to night**".

Moreover the reopening for light has been integrated to the end of eventual alarms (wind or disconnection).

### 5.2 WIND radio sensor

In case of **wind alarm** the control unit carries out a complete closing and remains on state of closing for a time of **12 minutes** after the reception of the last alarm.

During the state of alarm it is possible to carry out the radio learning and the test of the sensor, but it is not possible to carry out any type of operation until the control unit does not exit from the state of alarm. The control unit signals the state of alarm with **two beep** to the reception of an user order.

### 5.3 Alarm disconnection radio sensor

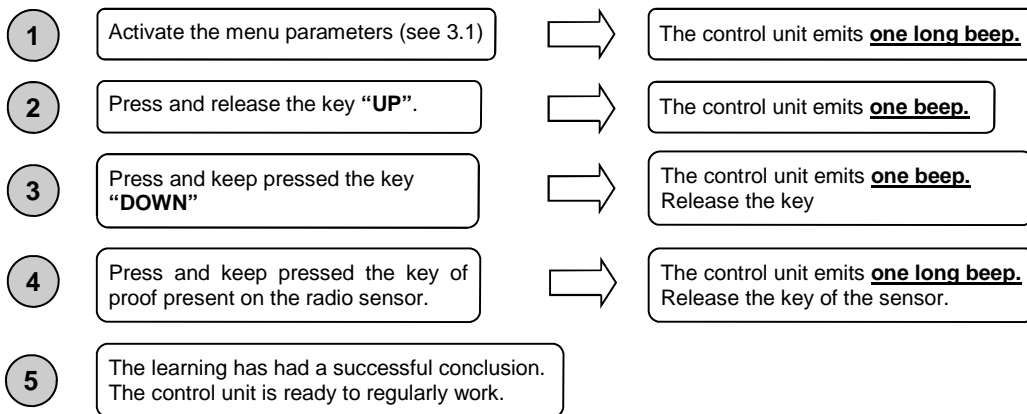
In case in which the radio communication between sensor and control unit runs out for more than **4 minutes**, the control unit closes completely the shutter and remains on the state of alarm for disconnection until the re – connection of the sensor.

During the state of alarm it is possible to execute the radio learning and the test of the sensor, but it is not possible to carry out any type of handling until the control unit does not exit from the state of alarm. The control unit signals the state of alarm with **4 Beep** to the reception of an user order.

It is possible to exit from the state of alarm executing a test transmission with the radio sensor.

### 5.4 Learning of the radio sensor

This procedure allows to learn a radio sensor. The control unit allows to learn **one single** radio sensor. The memorization of a second sensor automatically **cancels** the first one memorized.



In order to cancel a memorized radio sensor, it is sufficient repeat the operations above described. The control unit confirms the happened cancellation with **two long beep** followed by two short beep.

### 3.7 Total reset of the control unit

This menu allows to cancel all the memorized transmitters and radio sensors and to reset the control unit at the factory conditions. This procedure can be carried out both by transmitter and by wired buttons.

To reset the control unit, proceed as follows:

- 1 Activate the parameters menu (see 3.1). → The control unit emits **a long beep**.
- 2 Press and release **six times** the key "UP". → The control unit emits **a beep at each pressure on the key**.
- 3 Press and keep pressed the key "DOWN". → The control unit emits **six beep**. Release the key.
- 4 Press contemporarily the wired keys "UP" and "DOWN" or press the hidden key or the "M" menu of a memorized transmitter → The control unit emits a series of beep. **DO NOT** release the key.
- 5 The control unit emits a series of continuous beep → Release the key
- 6 The control unit emits six beep. → The learning has had a successful ending. The control unit is ready to work regularly.

#### Summarizing table of factory settings

Parameter	State
Transmitters	None
Motor position	Right
Typology of the shutter	Shutter
Self – learning	Active
Working time	3,5 min

### 4. Electrical connections

Two cable come out from the motor, : One for power supply of the motor and the control unit and the other one for the connection of the UP and DOWN button.

To connect the power supply, proceed as follow:

BLU - BROWN: Phase power supply 230Vac - 50Hz  
YELLOW/GREEN : Earth

To connect the buttons proceed as follow:

- UP BUTTON: Connect the button between the WHITE cable and the GREY cable of the motor
- DOWN BUTTON: Connect the button between the WHITE cable and the BROWN cable of the motor

### 3. Settings

#### 3.1 Activation of the parameters menu

It is possible to activate the parameters menu briefly pressing , in any instant, the hidden key of the series B.RO radio - transmitter , or transmitting the "M" menu of the series CLARUS transmitters. So it is very important to know what **kind of transmitter you have in possession got** before proceeding.

In case that no learned radio transmitters are available, it is possible to enter on the menu pressing contemporarily the wired buttons UP and DOWN by 30 seconds from the switching on of the control unit (no actions different than the action of switched on must be set up, otherwise the activation phase is cancelled).

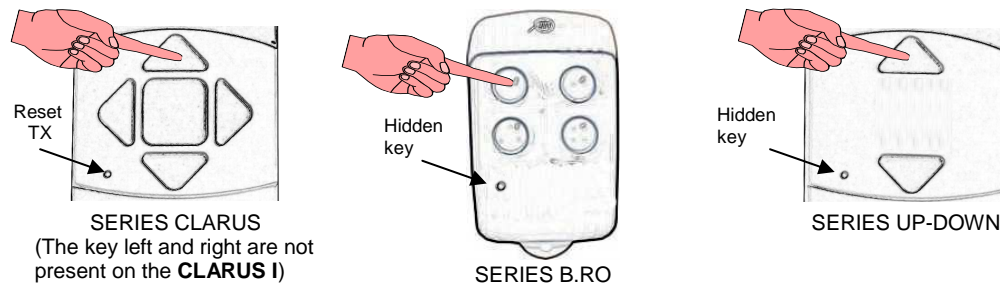
When the menu is activated the control unit emits a long beep.

#### 3.2 Selection of the motor rotation sense.

The setting of the motor rotation sense must be carried out considering that **the shutter must roll up itself when the key "UP" is pressed**. In contrary case proceed as follows. This procedure can be carried out both by transmitter and wired cables.

- 1 Activate the parameters menu (see 3.1). → The control unit emits **a long beep**.
- 2 Press and release **two times** the key "UP". → The control unit emits **a beep at each pressure of the key**.
- 3 Press and keep pressed the key "DOWN". → The control unit emits **two beep**. Release the key.
- 4 Press again the key "DOWN". → The control unit emits **three long beep**. Release the key
- 5 The learning has had a successful conclusion. The control unit is ready to work regularly

To go back to the factory settings, repeat the above mentioned operations pressing the **key "UP" instead of the key "DOWN" on the point 4** of the procedure. The control unit will signal the new setting with **two long beep**.



**WARNING: REMEMBER THAT THE SHUTTER MUST ROLL UP WHEN THE KEY "UP" IS PRESSED.**

### 3.3 Selection of shutter typology

This menu allows to select the typology of the shutter, this means that it allows to select if the shutter is a sunshade or a shutter. This procedure can be carried out both by transmitter and by wired buttons.

The factory typology of shutter is **the rolling shutter**.

To change it proceed like this :

- 1 Activate the parameters menu (see 3.1) → The control unit emits a **long beep**.
- 2 Press and release three times the key "UP" . → The control unit emits **a beep to each pressure of the key**.
- 3 Press and keep pressed the key "DOWN" → The control unit emits **three beep**. Release the key
- 4 Press again the key "DOWN" to select the typology of shutter **SUNSHADE**. → The control unit emits **three long beep**. Release the key
- 5 The learning has had a successful end. The control unit is ready to regularly work.

To go back to the factory setting, repeat the above mentioned operations pressing **the key "UP" instead of the key "DOWN" to the point 4** of the procedure. The control unit will signal the new setting with two long beep.

### 3.4 Self learning activation/deactivation

This menu allows to activate/deactivate the self – learning function. This function allows to learn a transmitter following the procedure described on point 2.1.

This procedure can be carried out both by transmitter and by wired buttons. The factory self – learning function is activated. **To deactivate it**, proceed as follows:

- 1 Activate the parameters menu (see 3.1). → The control unit emits a **long beep**.
- 2 Press and release **four times** the key "UP". → The control unit emits **a beep to each pressure of the key**.
- 3 Press and keep pressed the key "DOWN" → The control unit emits **four beep** - Release the key.
- 4 Press again the key "**DOWN**" to **deactivate the self - learning function** → The control unit emits **three long beep**. Release the key.
- 5 The learning has had a successful end. The control unit is ready to regularly work.

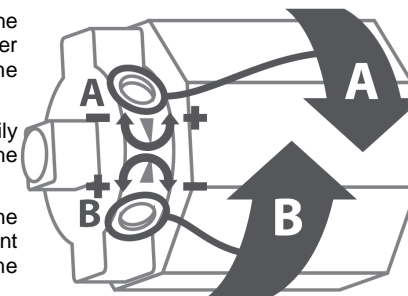
**To go back to the factory settings (To activate the self learning function)**, repeat the above mentioned operations pressing **the key "UP" instead of the key "DOWN" at point 4** of the procedure. The control unit will signal the new setting with **two long beep**.

### 3.5 Limit switches regulation.

On the head of the motor, two screws are present for the regulation of the limit switches present inside the motor. In order to facilitate the regulation of the limit switches, the working time set is 3.5min.

The arrow present on the head of the motor does not necessarily indicate the direction of the automation but it only indicate the sense of rotation of the motor (as shown in the picture).

To regulate the limit switches, operate to the screw moving in the "+" direction in order to increase the stroke in the correspondent direction or in the "-" direction in order to decrease it. The same think for the second limit switch.



### 3.6 Learning of the working time

This menu allows to optimize the working time of the control unit. The factory working time is of 3,5 min. This procedure can be carried out both by transmitter and by wired buttons.

Proceed as follows to learn the working time :

**WARNING: before of carrying out the learning of the course, it is very important to have previously selected the way of the motor and the typology of the shutter and to have correctly regulate the electrical limit switches.**

- 1 Activate the parameters menu (see 3.1) → The control unit emits **one long beep**
- 2 Press and release **five times** the key "UP" → The control unit emits **a beep at each pressure on the key**
- 3 Press and keep pressed the key "DOWN" → The control unit emits **five beep**. Release the key.
- 4 Bring the automation on total closing position pressing the close button. → The automation closes itself at **dead - man**.
- 5 Once closed the shutter release the close key.
- 6 Bring the automation on total opening position pressing the open button. → The automation open itself at **dead - man**.
- 7 Once closed the shutter release the open key.
- 8 Press and release the close key. → The control unit emits **five beep**.
- 9 The learning has had a successful ending. The control unit is ready to regularly work.