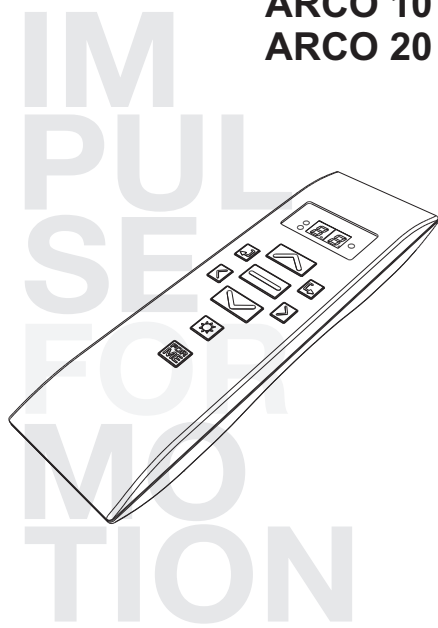


User manual for:
ARCO
ARCO 2
ARCO 5
ARCO 10
ARCO 20

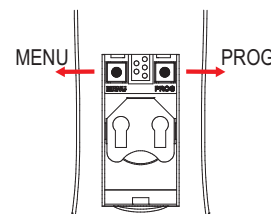
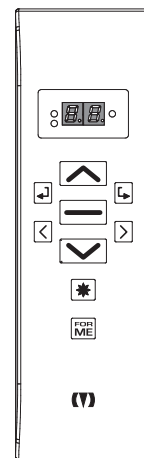


Dear Customer,
thank you for purchasing a MASTER S.p.A. product. This guide contains all the information you will need concerning the use of this product. Read the instructions carefully and keep them for further consultation. The ARCO transmitter is designed specifically to control sun awnings, blinds, roller shutters, screens or similar items. All other use beyond the field defined by MASTER S.p.A. is forbidden. This, as well as the breach of the instructions given in this guide, shall release MASTER S.p.A. from any liability and shall annul the product warranty.
Water, humidity, heat sources, accidental falls can damage the device. Do not use abrasive products

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Technical specifications

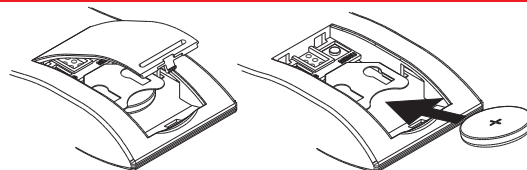
| | | | |
|------------------------|---------------------|------------------------------|------------------------|
| - Power supply: | n° 1 battery CR2032 | - Radio channel for ARCO: | 1 |
| - Dimensions: | 42x140x16 mm | - Radio channels for ARCO2: | 2 + sequencer channel |
| - Weight: | 50 gr | - Radio channels for ARCO5: | 5 + sequencer channel |
| - Working temperature: | from -20 to +55°C | - Radio channels for ARCO10: | 10 + sequencer channel |
| - Radio frequency: | 433.42 Mhz | | |

Package contents

- 1 transmitter
- 1 battery CR2032
- 1 wall bracket
- 2 dowels
- 1 instruction guide

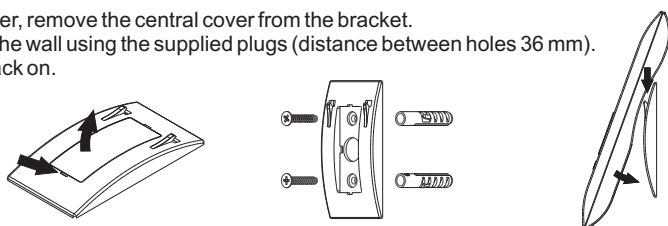
Battery insertion/replacement

The transmitter is powered by a battery C R2032. To insert the battery, remove the battery cover on the back of the transmitter, insert the battery respecting the polarity, close the cover. Use of batteries different than those referred can cause an explosion hazard. Used batteries must be discarded in appropriate containers. It is recommended to replace the battery every 2 years.



Fixing the wall bracket

Using a screw driver, remove the central cover from the bracket.
Fix the bracket to the wall using the supplied plugs (distance between holes 36 mm).
Place the cover back on.



Disposal

At the end of the product life cycle, dispose of the device in compliance with local regulations. This product could contain substances that are harmful to human health and the environment: do not dispose of the product in domestic waste.







Notes on radio systems

Do not use radio systems in places with strong interference (for example, near police stations, airports, banks, hospitals). It is in any case advisable to carry out a technical inspection prior to installing any radio system in order to identify possible sources of interference.
Radio systems can be used where any disturbances or malfunction of the transmitter or receiver do not constitute a risk factor, or if such factor is eliminated using appropriate safety systems.
The presence of radio devices working at the same transmission frequency (433.42 MHz) may interfere with the radio receiver and reduce the range of the system, limiting functionality.





1. FUNCTIONS ASSOCIATED WITH THE TRANSMITTER BUTTONS




Basic functions

-  up
-  stop
-  down
-  channel -/prev
channel +/next

Orientation

-  right orientation
-  left orientation

Sun/automatic lowering function

-  Select the channel (excluded sequencer channel and groups)
-  Press SUN until the state of the YELLOW LED varies (about 2 seconds)
-  YELLOW LED LIGHT ON:
sun/automatic lowering function active

Intermediate position

To store:



Press STOP and then FOR ME and hold the buttons until the motor signalation (about 5 seconds)

To recall:





Sun intermediate position

To store:



Press STOP and then SUN and hold the buttons until the motor signalation (about 5 seconds)


Programming function

-  Access to the receiver menu
-  transmitters
insertion-cancellation

- Notes:
- In the transmitter ARCO2 the «Sun/Automatic lowering function» is activated for **both** channels: if you enable it for channel 1, it is automatically activated for channel 2 and viceversa. It is not possible to activate the function only for channel 1 or only for channel 2.
 - It is possible that some receiving devices do not associate any operations to some transmitter buttons.
 - It is possible that some receiving devices associate to the transmitter buttons some operations different from what it is described. In this case consider the instruction manual of the receiving device.
 - The «Sun intermediate position» is a particular function that can be used only on motors ATOM, LEG associated to the radio sensor VEGA. For any further information please refer to the motor ATOM, LEG instruction manual and to the radio sensor VEGA.

2. ENABLING/DISABLING GROUPS AND CHANNELS

A



Press STOP and then MENU and hold the buttons for about 3 seconds, until the **ch** symbol is

B



Press STOP. **01** will appear.

C




if YELLOW LED IS ON:
channel/group enabled.

D



Press STOP to modify the setting.

E



If necessary, select another channel/group and return to point C.

F




To exit, press twice MENU or wait about 15 seconds (the display switches off).

3. DELAY ASSOCIATED TO GROUPS AND TO THE SEQUENCER CHANNEL


ARCO 2, ARCO 5 and ARCO 10 transmitters have a virtual channel called **Sequencer**, which sends the selected command in succession for all active radio channels. To select the **Sequencer**, scroll the list of channels until **SE** symbol appears. The ARCO 20 transmitter is equipped with 4 virtual channels (called **Groups**, indicated with **G1, G2, G3, G4**) which send the selected command in succession for all the active radio channels belonging to the group. To select a group, scroll the list of channels until the symbols **G1, G2, G3** and **G4** appear. It is possible to set the interval (from 1 to 10 sec) of time which must pass between the transmission on one channel and the next. The factory sets the delay at 1 second. The use of high intervals of time can negatively effect on the battery life.

A



Press STOP and then MENU and hold the buttons for about 3 seconds, until the symbol **ch** is displayed.

B




Press NEXT. The **Sd** symbol appears on the display.

C



Press STOP. The currently set value appears on the display

D




Use PREV and NEXT to set the required value.

E



Press STOP to save the setting.

F




To exit, press twice MENU or wait about 15 seconds (the display switches off).

4. SETTING THE CHANNELS BELONGING TO A GROUP (only ARCO20)


The ARCO 20 transmitter is equipped with 4 virtual channels (Groups, indicated by **G1, G2, G3, G4**) which send the selected command in succession for all the active radio channels belonging to the group. It is possible to associate up to 20 channels to each group. To set different groups, follow the procedure:

A




Press STOP and then MENU and hold the button for about 3 seconds, until **ch** symbol is

B




Press twice NEXT. **G1** symbol appears on the display. To select another group press

C




Press STOP. Channel 01 appears.

D




if YELLOW LED IS ON:
the channel belongs to the group.

E



Press STOP to modify the setting.

F



If necessary, select another channel and return to point E.







G



Once the operations are over, press twice MENU or wait 15 seconds.

5. RECEIVER MENU

After storing a radio channel of the transmitter on a receiver, it is possible to modify some operating parameters of the receiver directly from the transmitter. To identify the editable settings, refer to the instruction manual of the receiving device. To modify an operating parameter:

| | | |
|---|---|--|
| <p>A</p>  Select the channel associated to the | <p>B</p>  Press MENU on the transmitter for about 5 seconds, until rS symbol appears. | <p>C</p>  Use PREV and NEXT to select the code of the parameter to edit (see table). |
| <p>D</p>  Press STOP . The receiver will show the current value of the parameter. | <p>E</p>  Use PREV and NEXT to set the new parameter value. | <p>F</p>  Press STOP . The receiving device shows the new value of the parameter. |

| RECEIVER CODE FUNCTIONS | | |
|----------------------------|---------------------------|----------------------------|
| 01 - wind threshold | 11 - fabric release | 21 - function 21 |
| 02 - sun threshold | 12 - orientation time | 22 - function 22 |
| 03 - function 03 | 13 - obstacle on lowering | 23 - tensioning |
| 04 - function 04 | 14 - function 14 | 24 - function 24 |
| 05 - function 05 | 15 - function 15 | 25 - function 25 |
| 06 - insertion delay | 16 - anemometric test | 26 - function 26 |
| 07 - working time | 17 - radio test | 27 - function 27 |
| 08 - «air change» function | 18 - buttons logic | 28 - function 28 |
| 09 - torque reduction | 19 - function 19 | 29 - receiver reset |
| | | 30 - function 30 |

It is possible to exit the «receiver menu» at any time by pressing the button **MENU** briefly.

On the next section, the operations to be performed to modify some parameters are described. Following the same logic, all the other parameters can be modified.

CONVENTIONS USED IN THE EXAMPLES:

- On the following example with ▲ is indicated a short upward movement (example: ▲ 3 = 3 short upward movements of the motor).
- On the following example with ▼ is indicated a short downward movement (example: ▼ 1 = 1 short downward movement of the motor).
- Some receiver may display the settings in another way (i.e. not with motor movements, but with visual and acoustic signals) or not display the settings. In these cases, refer to the instruction manual of the receiver.

5.A - Modification of Function 01 - WIND THRESHOLD

01. Select the correct radio channel and bring the motor on the intermediate position.
02. Press **MENU** for about 5 seconds. **rS** appears on the display.
03. Press 1 time **NEXT**. 01 appears on the display.
04. Press 1 time **STOP**. The receiver signals the current value (*).
05. Using **PREV** and **NEXT** to set the new value (**).
06. Press 1 time **STOP**. The receiver signal the new value.

(*) only if the receiver allows the modification and report of the «wind threshold» parameter.

Examples:

- if threshold = 08 Km/h: ▲ 8
- if threshold = 15 Km/h: ▲ 1 - pause - ▲ 5
- if threshold = 30 Km/h: ▲ 3 - pause - ▲ 1 long

(**) For the range of allowed values refer to the manual of the receiver.

Examples:

- for threshold 08 Km/h: (0 time PREV) - 8 times NEXT
- for threshold 15 Km/h: 1 time PREV - 5 times NEXT
- for threshold 30 Km/h: 3 times PREV - (0 time NEXT)

5.B - Modification of Function 02 - SUN THRESHOLD

01. Select the correct radio channel and bring the motor on the intermediate position.
02. Press **MENU** for about 5 seconds. **rS** appears on the display.
03. Press 2 times **NEXT**. 02 appears on the display.
04. Press 1 time **STOP**. The receiver signals the current value (*).
05. Using **PREV** and **NEXT** to set the new value (**).
06. Press 1 time **STOP**. The receiver signal the new value.

(*) only if the receiver allows the modification and report of the «sun threshold» parameter.

Examples:

- if threshold = 07 Klux: ▲ 7
- if threshold = 18 Klux: ▲ 1 - pause - ▲ 8
- if threshold = 20 Klux: ▲ 2 - pause - ▲ 1 long

(**) For the range of allowed values refer to the manual of the receiver.

Examples:

- for threshold 07 Klux: (0 time PREV) - 7 times NEXT
- for threshold 18 Klux: 1 time PREV - 8 times NEXT
- for threshold 20 Klux: 2 times PREV - (0 time NEXT)

5.C - Modification of Function 09 - TORQUE REDUCTION

01. Select the correct radio channel and bring the motor on the intermediate position.
02. Press **MENU** for about 5 seconds. **rS** appears on the display.
03. Press 9 times **NEXT**. 09 appears on the display.
04. Press 1 time **STOP**. The receiver signals the current value (*).
05. Using **PREV** and **NEXT** to set the new value (**).
06. Press 1 time **STOP**. The receiver signal the new value.

(*) only if the receiver allows the modification and report of the «torque reduction» parameter.

Example: if parameter value = 3: ▲ 3

(**) For the range of allowed values refer to the manual of the receiver.

Example: for parameter = 3: (0 time PREV) - 3 times NEXT

5.D - Modification of Function 11 - FABRIC RELEASE

01. Select the correct radio channel and bring the motor on the intermediate position.
02. Press **MENU** for about 5 seconds. **rS** appears on the display.
03. Press 1 time **PREV** and 1 time **NEXT**. 11 appears on the display.
04. Press 1 time **STOP**. The receiver signals the current value (*).
05. Using **PREV** and **NEXT** to set the new value (**).
06. Press 1 time **STOP**. The receiver signal the new value.

(*) only if the receiver allows the modification and report of the «fabric release» parameter.

Example: if parameter value = 2: ▲ 2

(**) For the range of allowed values refer to the manual of the receiver.

Example: for parameter = 2: (0 time PREV) - 2 times NEXT

5.E - Modification of Function 12 - ORIENTATION TIME

01. Select the correct radio channel and bring the motor on the intermediate position.
02. Press **MENU** for about 5 seconds. **rS** appears on the display.
03. Press 1 time **PREV** and 2 times **NEXT**. 12 appears on the display.
04. Press 1 time **STOP**. The receiver signals the current value (*).
05. Using **PREV** and **NEXT** to set the new value (**).
06. Press 1 time **STOP**. The receiver signal the new value.

(*) only if the receiver allows the modification and report of the «orientation time» parameter.
Example: if the parameter value = 4: ▲ 4

(**) For the range of allowed values refer to the manual of the receiver.
Example: for parameter = 4: (0 time **PREV**) - 4 times **NEXT**

5.G - Modification of Function 16 - ANEMOMETRIC TEST

01. Select the correct radio channel and bring the motor on the intermediate position.
02. Press **MENU** for about 5 seconds. **rS** appears on the display.
03. Press 1 TIME **PREV** and 5 times **NEXT**. 16 appears on the display.
04. Press 1 time **STOP**. The receiver signals the current value (*).
05. Press **PREV** to disable the function (**Of** appears on the display) or **NEXT** to enable the function (**On** appears on the display).
06. Press 1 time **STOP**. The receiver signal the new value.

(*) only if the receiver allows the modification and report of the «anemometric test» parameter.
Function active: ▲ 1 - Function not active: ▼ 1

5.I - Modification of Function 18 - BUTTONS LOGIC

01. Select the correct radio channel and bring the motor on the intermediate position.
02. Press **MENU** for about 5 seconds. **rS** appears on the display.
03. Press 1 time **PREV** and 8 times **NEXT**. 18 appears on the display.
04. Press 1 time **STOP**. The receiver signals the current value (*).
05. Press **PREV** for logic «pulse» (**Of** appears on the display) or **NEXT** for logic «hold to run» (**On** appears on the display).
06. Press 1 time **STOP**. The receiver signal the new value.

(*) only if the receiver allows the modification and report of the «buttons logic» parameter..
Hold to run: ▲ 1 - Pulse: ▼ 1

5.K - Modification of Functions 3, 4, 5, 6, 7, 8, 10, 14, 15

To modify these parameters follow point 5.A, taking care to select on point 03 the function code you need to change.

5.M - Function 29 - RECEIVER RESET



WARNING:

For this procedure, use **ONLY A CHANNEL STORED ON THE RECEIVER THAT YOU WANT TO RESET** if more devices are tuned on the same channel, power on only the device to be resetted.

01. Select the channel tuned on the receiver to be «resetted».
02. Press **MENU** for around 5 seconds. **rS** appears on the display.
03. Press 2 times **PREV** and 9 times **NEXT**. 29 appears on the display.
04. Press 1 time **STOP**. The receiver signals that it is ready for the memory reset (with visual or acoustic signals, see the receiver instruction manual); on the transmitter, all the leds and display segments come on intermittently for a few seconds. Then they light on.
05. Press together **PREV** and **NEXT** until the receiver signals that the factory settings have been restored.
06. Follow the instruction manual of the receiver to re-install the receiver.



All products and technical specifications given in this document are subject to variation without notice.

Unless previously and specifically authorised by the manufacturer, the device must be used exclusively with receivers produced by the same manufacturer. The manufacturer shall not be liable for damage resulting from improper, incorrect or unreasonable use.

MASTER S.p.A. declares that the device complies with the fundamental requirements and other provisions of Directive 1999/5/CE. The declaration of conformity can be downloaded from the website <http://www.mastermotion.eu/it-IT/download> in the