

KUADRO

MANUAL AND MAINTENANCE

KUADRO

Kuadro rev01 del 17.04.15

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 KUADRO transmitter is designed specifically to control sun awnings, blinds, roller shutters, screens or similar items. All other use beyond the field defined by MASTER is forbidden. This, as well as the breach of the instructions given in this guide, shall release MASTER from any liability and shall annul the product warranty. Water, humidity, heat sources and accidental knocks may damage the device. Do not use abrasive products or solvents to clean the product.

Notes on the 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.

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.



Package contents

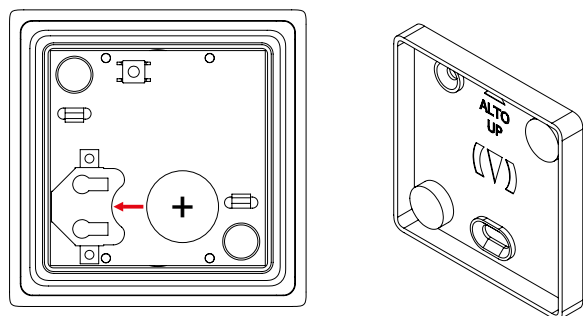
- 1 transmitter
- 1 CR2032 battery
- 1 support
- 2 plugs
- 1 instruction sheet

Technical characteristics

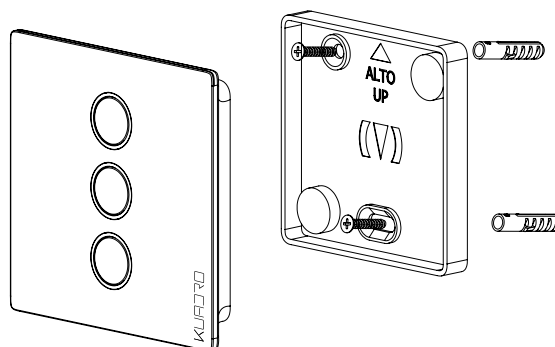
Power:	No. 1 CR2032 battery (3 Volts)
Size:	80 x 80 x 13 mm
Weight:	70 g
Working temperature:	from -20 to +55°C
Radio frequency:	433.42 MHz
Radio channels:	1

Battery insertion/replacement

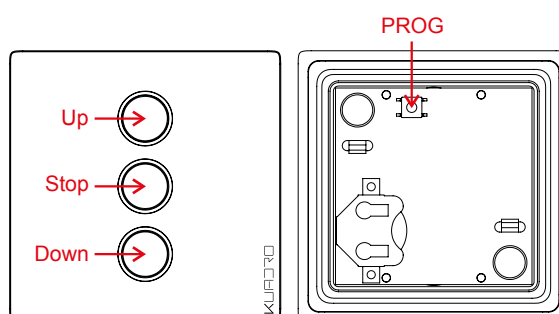
The transmitter is powered by a CR2032 battery.
To replace the battery, remove the transmitter from the wall bracket, replace the battery with a new battery of the same type according to the polarity and place the transmitter in his support. Using other types of batteries could lead to a risk of explosion. Used batteries must be disposed of in special containers.
As the battery become used, the range of the transmitter drops gradually until it is completely unusable. Replace the battery at least once every 2 years.



Fixing the wall bracket

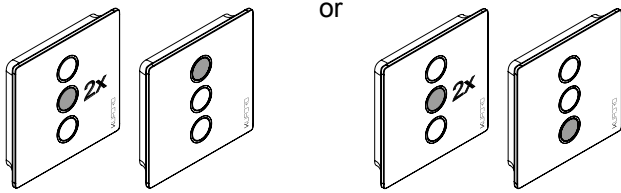


Basic functions



1. FUNCTIONS ASSOCIATED WITH THE TRANSMITTER BUTTONS

Orientation

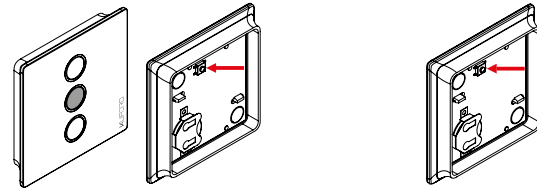


Press **STOP** twice quickly and hold down **UP** or **DOWN**

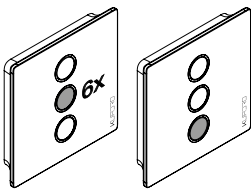
Programming functions

Access to the receiver menu
(see point 2, "Receiver Menu")

Entering / deleting transmitters



Intermediate limit switch

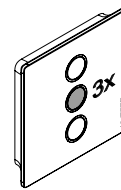


To memorise

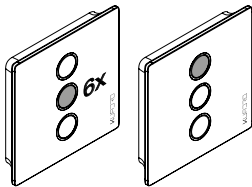
Press **STOP** 6 times quickly then keep **DOWN** pressed until the motor signal comes on (approx. 5 seconds)

To recall

Press **STOP** 3 times quickly (LEDs buttons flash 3 times)



Intermediate sun limit switch

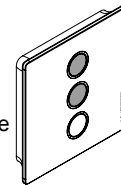


To memorise

Press **STOP** 6 times quickly then keep **UP** pressed until the motor signal comes on (approx. 5 seconds)

Sun/Automatic lowering function

Holding down **STOP**, press **UP** until the LEDs state changes (approx. 2 seconds). In this way the function is changed from active to inactive and vice versa.



To view the state of the function hold down a button:

if the LEDs flash, the function is **DISABLE**

if the LEDs light up making a round trick of light, the function is **ACTIVE**

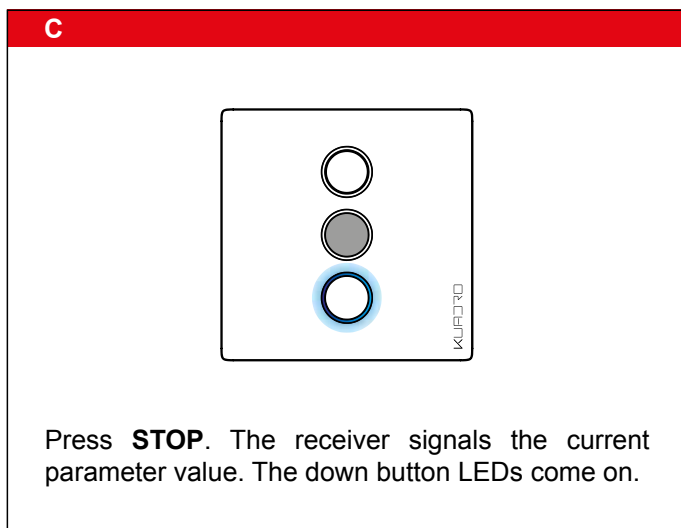
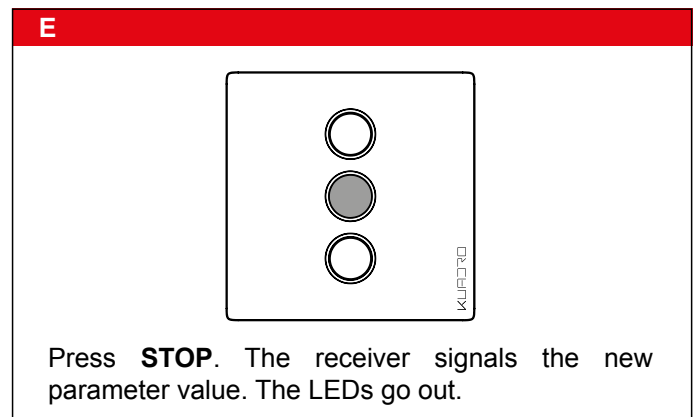
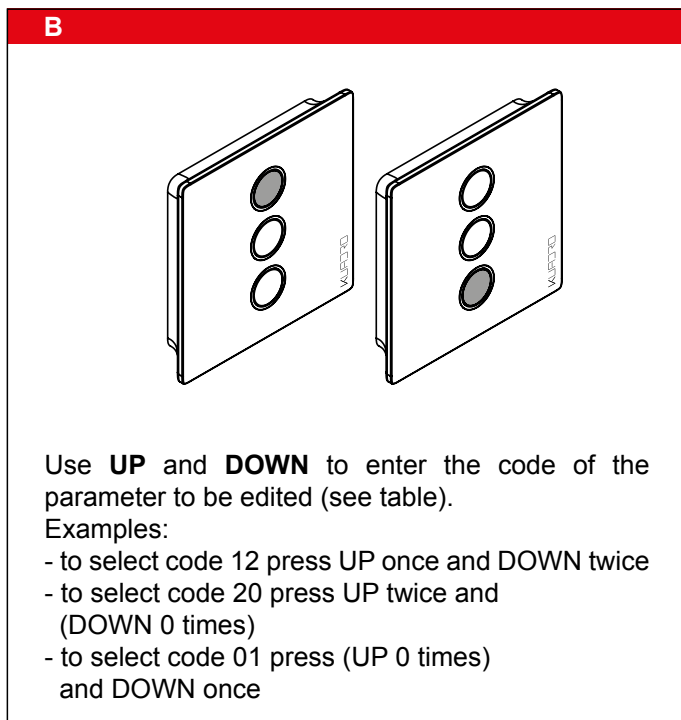
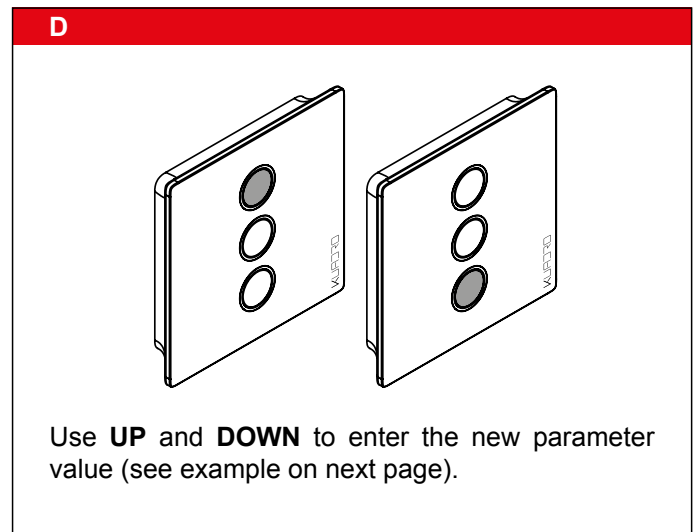
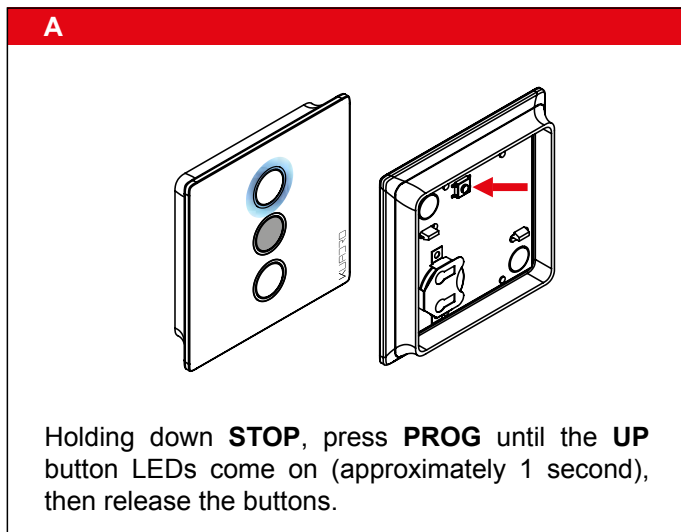
Some receivers may not associate some operations to some transmitter buttons.

Some receivers may associate different operations to those described to the transmitter buttons. In this case, please refer to the receiver instruction manual.

The "intermediate sun limit switch" is a special function that can only be used with ATOM, LEG motors associated to the VEGA radio sensor. For more information, please refer to the instructions manuals of the ATOM, LEG motor and VEGA radio sensor.

2. RECEIVER MENU

After storing a transmitter radio channel on a receiver, some operating parameters of the receiver can be edited directly from the transmitter. To identify the settings that can be edited, consult the receiver instruction manual. To edit an operating parameter on the receiver:



RECEIVER FUNCTION CODES

01 - wind threshold	16 - wind gauge test
02 - sun threshold	17 - radio test
03 - function 03	18 - buttons logic
04 - function 04	19 - function 19
05 - function 05	20 - function 20
06 - function 06	21 - function 21
07 - working time	22 - function 22
08 - function 08	23 - tensioning
09 - torque reduction	24 - function 24
10 - function 10	25 - function 25
11 - fabric release	26 - function 26
12 - orientation time	27 - function 27
13 - obstacle on lowering	28 - function 28
14 - function 14	29 - receiver reset
15 - function 15	30 - function 30
	31 - function 31

You can exit the “receiver menu” at any time by pressing the PROG button briefly. The following paragraphs describe the operations to edit some of these parameters in detail.

CONVENTIONS USED IN THE EXAMPLES.

In the following examples p is used to indicate a short upwards movement of the motor (example: p3 = 3 short upward movements of the motor). In the following examples q is used to indicate a short downwards movement of the motor (example: q1 = 1 short downwards movement of the motor). Some receivers may show the settings in a different way (i.e. not with motor movements but with sounds or lights), or may not signal the settings. In these cases, consult the receiver instruction manual.

2.A - Editing function 01 - WIND THRESHOLD

01. Move the motor to the intermediate position.
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LED comes on.
03. Press **DOWN** once (function 01).
04. Press **STOP** once. The receiver signals the current value (*). The **DOWN** button LED comes on.
05. Use **UP** and **DOWN** to set the new value (**).
06. Press **STOP** once. The receiver signals the new value.

(*) only if the receiver can accept the change and signal 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 permitted values, refer to the receiver manual.
Examples:
for threshold 08 Km/h: (UP 0 times) - DOWN 8 times
for threshold 15 Km/h: UP once - DOWN 5 times
for threshold 30 Km/h: UP 3 times - (DOWN 0 times)

2.B - Editing function 02 - SUN THRESHOLD

01. Move the motor to the intermediate position.
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LED comes on.
03. Press **DOWN** 2 times (function 02).
04. Press **STOP** once. The receiver signals the current value (*). The **DOWN** button LED comes on.
05. Use **UP** and **DOWN** to set the new value (**).
06. Press **STOP** once. The receiver signals the new value.

(*) only if the receiver can accept the change and signal 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 permitted values, refer to the receiver manual.
Examples:
for threshold 07 Klux: (UP 0 times) - DOWN 7 times
for threshold 18 Klux: UP once - DOWN 8 times
for threshold 20 Klux: UP 2 times - (DOWN 0 times)

2.C - Editing function 09 - TORQUE REDUCTION

01. Move the motor to the intermediate position.
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LED comes on.
03. Press **DOWN** 9 times (function 09).
04. Press **STOP** once. The receiver signals the current value (*). The **DOWN** button LED comes on.
05. Use **UP** and **DOWN** to set the new value (**).
06. Press **STOP** once. The receiver signals the new value.

(*) only if the receiver can accept the change and signal the "torque reduction" parameter.

Example:

- if the current value = 3: ▲ 3

(**) For the range of permitted values, refer to the receiver manual.
Example:
setting = 3: (UP 0 times) - DOWN 3 times.

2.D - Editing function 11 - FABRIC RELEASE

01. Move the motor to the intermediate position.
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LED comes on.
03. Press **UP** once and **DOWN** once (function 11).
04. Press **STOP** once. The receiver signals the current value (*). The **DOWN** button LED comes on.
05. Use **UP** and **DOWN** to set the new value (**).
06. Press **STOP** once. The receiver signals the new value.

(*) only if the receiver can accept the change and signal the "fabric release" parameter.

Example:

- if the current value = 2: ▲ 2

(**) For the range of permitted values, refer to the receiver manual.
Example:
setting = 3: (UP 0 times) - DOWN 3 times.

2.E - Editing function 12 - ORIENTATION TIME

01. Move the motor to the intermediate position.
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LED comes on.
03. Press **UP** once and **DOWN** 2 times (function 12).
04. Press **STOP** once. The receiver signals the current value (*). The **DOWN** button LED comes on.
05. Use **UP** and **DOWN** to set the new value (**).
06. Press **STOP** once. The receiver signals the new value.

(*) only if the receiver can accept the change and signal the "orientation time" parameter.

Example:

- if the current value = 4: ▲ 4

(**) For the range of permitted values, refer to the receiver manual.
Example:
setting = 4: (UP 0 times) - DOWN 4 times.

2.F - Editing function 13 - OBSTACLE ON LOWERING

01. Move the motor to the intermediate position.
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LED comes on.
03. Press **UP** once and **DOWN** 3 times (function 13).
04. Press **STOP** once. The receiver signals the current value (*). The **DOWN** button LED comes on.
05. Use **UP** and **DOWN** to set the new value (**).
06. Press **STOP** once. The receiver signals the new value.

(*) only if the receiver can accept the change and signal the "obstacle on lowering" parameter.

Example:

- if the current value = 1: ▲ 1

(**) For the range of permitted values, refer to the receiver manual.
Example:
setting = 1: (UP 0 times) - DOWN once.

2.G - Editing function 16 - WIND GAUGE TEST

01. Move the motor to the intermediate position.
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LED comes on.
03. Press **UP** once and **DOWN** 6 times (function 16).
04. Press **STOP** once. The receiver signals the current value (*). The **DOWN** button LED comes on.
05. Press **DOWN** to disable the function, or press **UP** to enable the function.
06. Press **STOP** once. The receiver signals the new value.

(*) only if the receiver can accept the change and signal the "wind gauge test" parameter.
Function enabled: ▲ 1; Function disabled: ▼ 1

2.H - Editing function 17 - RADIO TEST

01. Move the motor to the intermediate position.
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LED comes on.
03. Press **UP** once and **DOWN** 7 times (function 17).
04. Press **STOP** once. The receiver signals the current value (*). The **DOWN** button LED comes on.
05. Press **DOWN** to disable the function, or press **UP** to enable the function.
06. Press **STOP** once. The receiver signals the new value.

(*) only if the receiver can accept the change and signal the "radio test" parameter.
Function enabled: ▲ 1; Function disabled: ▼ 1

2.I - Editing function 18 - BUTTONS LOGIC

01. Move the motor to the intermediate position.
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LED comes on.
03. Press **UP** once and **DOWN** 8 times (function 18).
04. Press **STOP** once. The receiver signals the current value (*). The **DOWN** button LED comes on.
05. Press **DOWN** for "pulse" logic or press **UP** for "man present" logic.
06. Press **STOP** once. The receiver signals the new value.

(*) only if the receiver can accept the change and signal the "buttons logic" parameter.
"Man present": ▲ 1; "Pulse": ▼ 1

2.J - Editing function 23 - TENSIONING

01. Move the motor to the intermediate position.
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LED comes on.
03. Press **UP** twice and **DOWN** 3 times (function 23).
04. Press **STOP** once. The receiver signals the current value (*). The **DOWN** button LED comes on.
05. Press **DOWN** to disable the function, or press **UP** to enable the function.
06. Press **STOP** once. The receiver signals the new value.

(*) only if the receiver can accept the change and signal the "tensioning" parameter.
Function enabled: ▲ 1; Function disabled: ▼ 1

2.K - Editing function 3, 4, 5, 6, 7, 8, 10, 14, 15

To edit these parameters, follow the instructions given in the box 2.A, taking care in point 03 to select the code of the function you wish to edit.

2.L - Editing function 19, 20, 21, 22, 24, 25, 26, 27, 28, 30, 31

To edit these parameters, follow the instructions given in the box 2.G, taking care in point 03 to select the code of the function you wish to edit.

 **MASTER**
MOTION AHEAD

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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 cannot be held liable for damage resulting from unsuitable, incorrect or unreasonable use. MASTER S.p.A. declares that the device complies with the fundamental requirements and other provisions of Directive 1999/5/EC. The declaration of conformity can be downloaded from the website <http://www.mastermotion.eu/it-IT/download> in the Product Conformity section.

2.M - Function 29 - RECEIVER RESET



WARNING:

For this procedure, use a transmitter memorised ONLY IN THE RECEIVER YOU WISH TO RESET

01. Run the operation from the transmitter tuned with the receiver to be «resetted».
02. Press **STOP** and **PROG** for approx. 1 second. The **UP** button LEDs come on.
03. Press **UP** twice and **DOWN** 9 times (function 29).
04. Press **STOP** once. The receiver signals that it is ready for reset (via visual or acoustic signals, refer to the instruction manual of the receiver) to memory, on the transmitter, all LEDs come on flashing for a few seconds.
05. Await that the transmitter LEDs end to flash, then press **UP** and **DOWN** together until the receiver signals that factory settings have been restored.
06. Following the instructions in the receiver manual to install the receiver again.