



Radio Quick Installation Guide

FOR PROFESSIONALS

All you
need
to know



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A

DIRECT MODE

To control one or more receivers with a transmitter pushbutton, a logic "connection" must be established between transmitter and receiver(s). Once this connection has been established, the transmitter LED will blink once when the pushbutton is pressed (when the "pushbutton pressed" command is transmitted) and will blink a second time when the pushbutton is released (when the "pushbutton released" command is transmitted"). The control is identical to that of a wired pushbutton. Thus, the receiver can be configured with configuration press as if this action was being performed on the wired pushbutton of the receiver.

Each transmitter pushbutton can control up to 4 receivers in direct mode. If several receivers are memorised on the same pushbutton, the control is centralised: all connected receivers are controlled simultaneously.

In this case, the LED will blink only when the pushbutton is pressed (and will not blink when it is released). Moreover, the LED only blinks if the radio transmission is correct. This means that, if the LED does not blink, it is necessary to verify that all receivers connected to this pushbutton are within the range of the radio control (i.e., in the same room having a maximum surface area of 100 sq. metres). Some of the receivers memorised on one pushbutton may no longer exist or may have been replaced. In this case, apply 21 short press on the transmitter pushbutton to delete the incorrect radio connections (WARNING: carry out this operation when all receivers are within the range of the transmitter, otherwise they will be deleted).

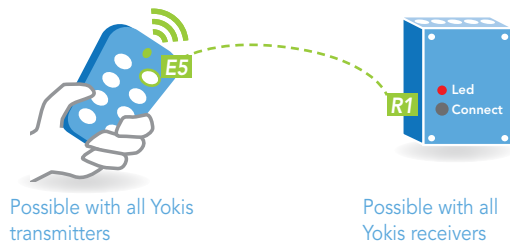
A-1

CONNECTING A TRANSMITTER TO A RECEIVER

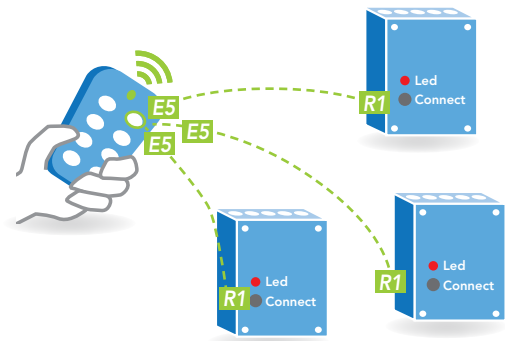
Apply 5 short press on the transmitter pushbutton **E5** then, while its LED blinks, press "connect" on the receiver **R1**.

Note: to connect another receiver to the same pushbutton, repeat the above procedure (up to 4 receivers per pushbutton).

A-1a Connecting the pushbutton of a transmitter to a receiver

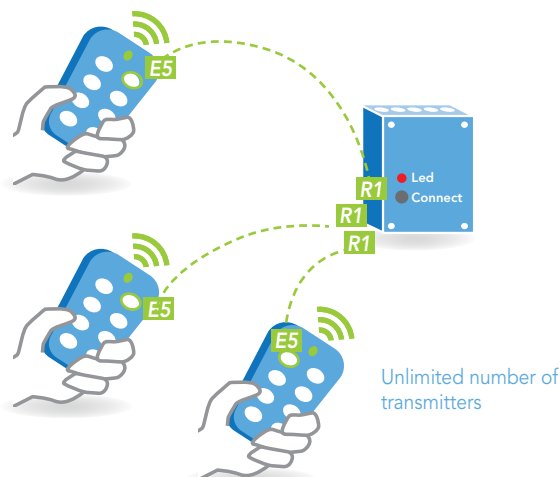


A-1b Connecting the pushbutton of a transmitter to three receivers



The receivers will be controlled simultaneously. Maximum 4 receivers. Unlimited number with "Radio bus" (see § B-1)

A-1c Connecting several transmitters to the same receiver



A-2**TESTING THE CORRECT CONNECTION OF A TRANSMITTER TO A RECEIVER**

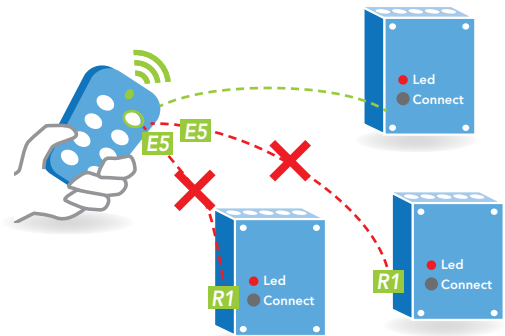
Press the transmitter pushbutton once to control the receiver. The LED on the transmitter and on the receiver will blink to confirm that the radio transmission was successful. The LED will blink a first time when the pushbutton is pressed and a second time when the pushbutton is released. If the LED does not blink, the transmitter and the receiver may be too distant; step closer to the receiver until the LED blinks. If the LED still does not blink, apply 21 short press on the pushbutton of the transmitter to delete any wrong radio connections.

WARNING: the radio range may be reduced due to the presence of metallic elements near the transmitters or receivers, the presence of GSM antenna or video transmitters using 2.4 GHz frequencies. WiFi and Bluetooth systems do not interfere with transmitter/receiver radio connections.

A-2a LED blinking when a receiver is controlled with a transmitter pushbutton**A-3****DISCONNECTING A TRANSMITTER FROM A RECEIVER**

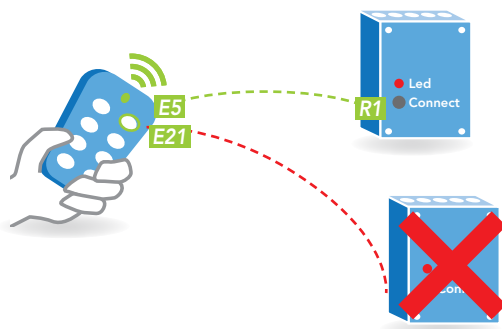
Apply 5 short press on the transmitter pushbutton **E5** then, while the LED blinks, press "connect" on the receiver **R1**.

Note: The procedure is identical to the connection procedure.

A-3a Disconnecting the pushbutton of a transmitter from a receiver**A-3b Disconnecting the pushbutton of a transmitter from 2 out of 3 receivers. Only one out of 3 receivers remains connected.****A-4****REPLACING A RECEIVER**

Apply 5 short press on the transmitter pushbutton **E5** then, while the LED blinks, press "connect" on the new receiver **R1**.

Apply 21 short press on the transmitter pushbutton **E21** to delete the connection with the old receiver.

A-4a Replacing a receiver with a new one



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B

RADIO BUS MODE

It is possible to connect an unlimited number of receivers defining a "Radio bus". This allows:

- sending controls to "Groups" of receivers belonging to the "Radio bus" (see § C);
- transmitting a control from a transmitter to a receiver out of its direct range (see § E);
- centralise the control of all lights or all window shutters (see § F).

All receivers (MTR2000ER - MTV500ER - MVR500ER) are compatible with the "Radio bus".

Window shutter controls can also be transmitted through the lighting modules, and viceversa.

Connections are bi-directional and can be organised in a linear, star or mesh network.

B-1

CONNECTING TWO RECEIVERS TO DEFINE THE "RADIO BUS"

Apply one short press on "connect" on receiver 1. Its LED starts blinking. **R1**

While the LED is blinking, press "connect" on receiver 2. **R1**

To confirm the connection, the LED on receiver 2 blinks once and the LED on receiver 1 stops blinking; when the connection is established the relays on the two receivers switch once.

Note: during this phase, the range of each device is half its normal value, so as to guarantee the correct future operation of the "Radio bus".

B-1a Radio bus between four receivers



Possible with all Yokis receivers

Unlimited number of receivers on Radio bus

B-2

DISCONNECTING TWO SPECIFIC RECEIVERS

Apply 6 short press on "connect" on receiver 1 **R6** and when the LED blinks 6 times, press on "connect" on receiver 2 **R1**

B-2a ELIMINATING A CONNECTION



B-3

ELIMINATING ALL CONNECTIONS OF A SPECIFIC RECEIVER

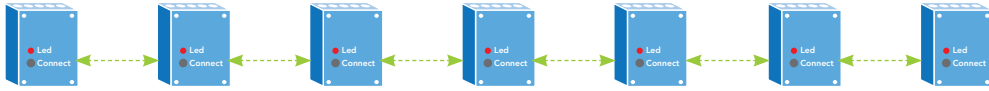
Press "connect" for over 3 seconds on the receiver you wish to completely "disconnect" from the "radio bus". The LED blinks once and all connections with the receiver are deleted. If necessary, repeat on other receivers.

B-3a Eliminating all connections of all receivers

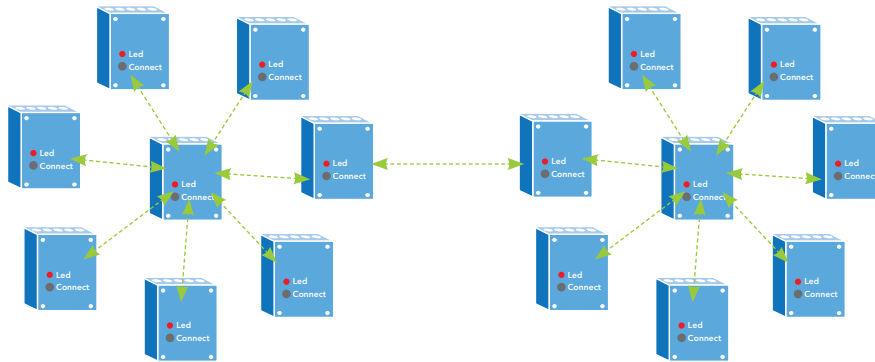


Unlimited number of receivers on Radio bus. All receivers are compatible with each other

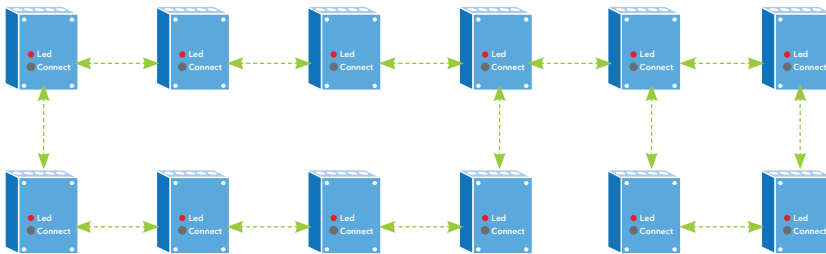
B-4a Linear connections (unlimited number)



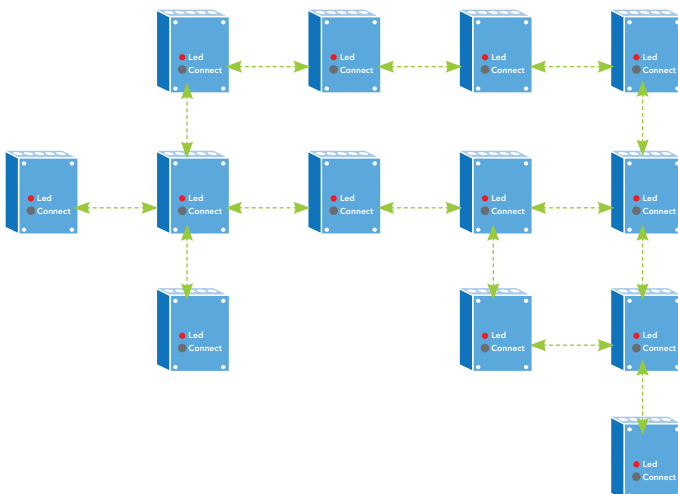
B-4b Star connections: unlimited number of interconnected stars, up to 7 connections on a single receiver.



B-4c Mesh network connections (unlimited number)



B-4d Mixed connections (unlimited number)





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C

GROUPS of receivers on "Radio bus"

Once the "Radio bus" has been defined as illustrated in § B, a few receivers can be "grouped" together so that they respond simultaneously to certain commands.

For instance, if 5 lighting receivers have been interconnected on the "Radio bus", it is possible to define a group made of 3 receivers and a group made with the remaining two. In this way, certain controls will switch on simultaneously the first three lights, while other controls will switch on simultaneously the remaining two lights.

Any command received from a receiver that is part of one group is automatically transmitted to all other members of the group through the "Radio bus". This applies not only to radio controls, but also to any controls received from a wired pushbutton connected to one of the receivers in the group.

C-1

GROUPING SEVERAL RECEIVERS AND CONNECTING ONE PUSHBUTTON TO THE GROUP

To create the Group:

Apply 4 short press on the "connect" pushbutton on receiver 1: the LED blinks quickly 4 times **R4**.

Then, quickly press "connect" once on receiver 2. **R1**

The LEDs on both receivers will blink 4 times and the relevant relays will be switched. Now the two receivers are part of the same group. Repeat the same procedure to add other receivers to the group.

To add a transmitter pushbutton to the Group:

Apply 5 short press on the transmitter pushbutton

E5

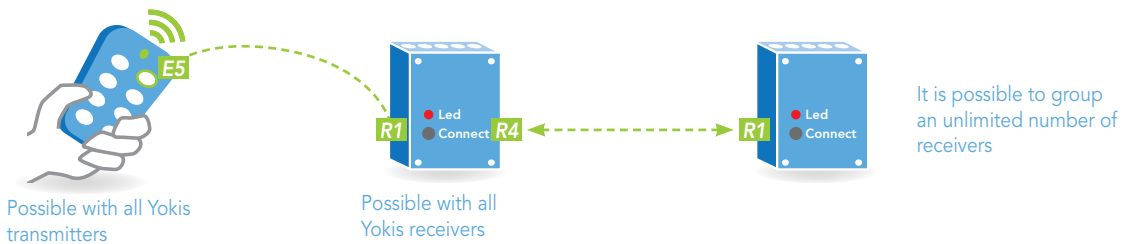
then, while its LED blinks, press "connect" on any receiver in the group (usually the one closest to the transmitter).

R1

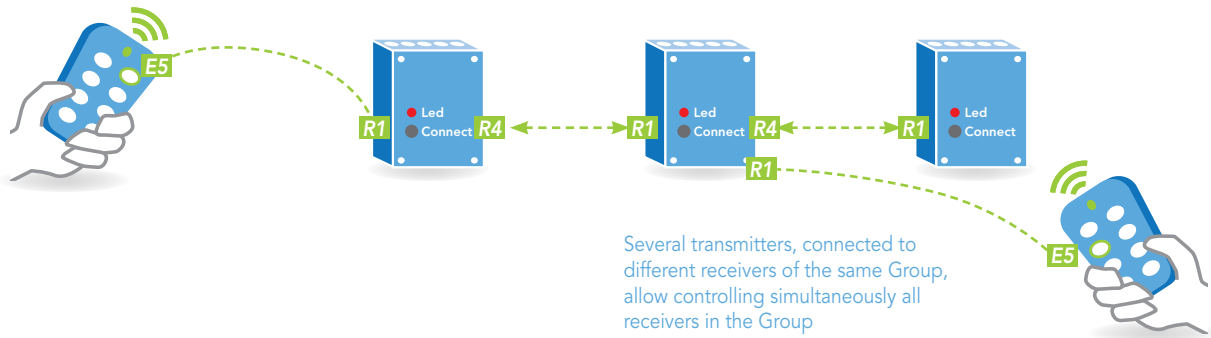
Repeat the same procedure to connect other pushbuttons.

Note: the Group creation procedure automatically creates a "Radio bus" if this was not previously created.

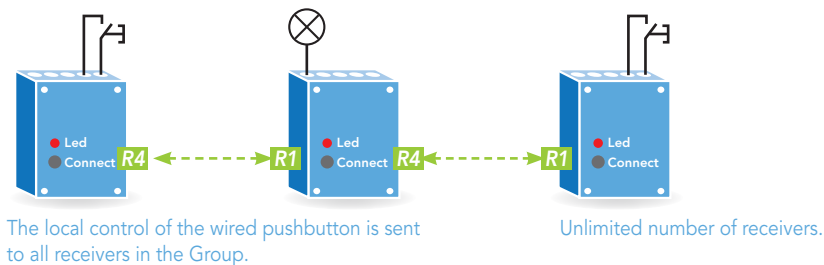
C-1a Grouping 2 receivers and connecting one pushbutton to the group.



C-1b Grouping 3 receivers and connecting 2 pushbuttons to the group



C-1c A battery-less transmitter can be used to control a group of receivers.





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D

Pushbutton and transmitter DUPLICATION

D-1 DUPLICATION OF ONE PUSHBUTTON (FIRST CONNECTION ONLY)

Apply 5 short press on the new pushbutton **E5**.
While the LED blinks, press for over 3 seconds the pushbutton you wish to duplicate **>3"**.
The LED will blink once to confirm duplication.

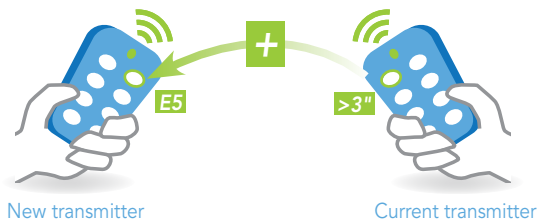
This operation can be performed between two pushbuttons on the same transmitter, as well as between two pushbuttons on different transmitters.
Warning: if the pushbutton you wish to duplicate was programmed with several connections, the duplication will take into account only the first connection. Moreover, the new pushbutton will be configured as a toggle (function no. 1), regardless of the function of the original pushbutton.

D-1a Duplication of one pushbutton on the same transmitter



Possible with all Yokis transmitters

D-1b Duplication of one pushbutton on another transmitter



D-2 DUPLICATION OF ONE PUSHBUTTON BETWEEN TWO TRANSMITTERS (ALL CONNECTIONS)

On the new transmitter:

Apply 10 short press on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks, apply 12 short press on the desired pushbutton **12**. The LED blinks while waiting for the duplication process to complete (approximately 30 seconds).

On the original transmitter:

Apply 10 short press on any pushbutton on the transmitter (Configuration menu **M**). The transmitter LED will blink quickly.
As the LED blinks, apply 13 short press on the pushbutton you wish to duplicate **13**. The LED blinks during data transfer, then turns off.

This can be done with two pushbuttons on different transmitters.

Warning: if the pushbutton you wish to duplicate was programmed with several connections, the duplication will take into account all connections. The new pushbutton will be configured as a toggle (function no. 1), regardless of the function of the original pushbutton.

D-3 DUPLICATION OF ONE TRANSMITTER

On the new transmitter:

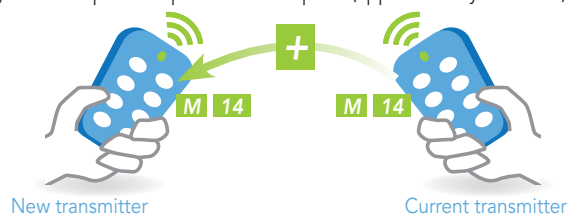
Apply 10 short press on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.

As the LED blinks,
apply 14 short press on any pushbutton **14**.
The LED blinks while waiting for the duplication process to complete (approximately 30 seconds).

On the existing transmitter:

Apply 10 short press on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.

As the LED blinks,
apply 14 short press on any pushbutton **14**.
The LED blinks while waiting for the duplication process to complete (approximately 1 second).



Possible with all Yokis transmitters



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Range extension with "RADIO BUS"

If the receiver is out of the transmitter's range, it is possible to place intermediate additional receivers between the transmitter and the receiver. With the interconnection of receivers allowed by the "Radio bus", the transmitter will reach and control the receiver. First, it is necessary to establish a connection between the transmitter and the out-of-range receiver that you wish to control (see § A-1). Then, create a "Radio bus" between all receivers (see § B-1 creation of a "Radio bus"). Finally, define any receiver on the "Radio bus" as the access point for the transmitter: through the receiver, the transmitter will send its control over the "Radio bus". To sum up, the transmitter tries to communicate directly with the receiver, but in case this is not possible, it goes through its access point on the "Radio bus", thus reaching the receiver indirectly.

E-1

DEFINITION OF AN "ACCESS POINT" TO THE "RADIO BUS"

Apply 7 short press on any transmitter pushbutton **E7**.

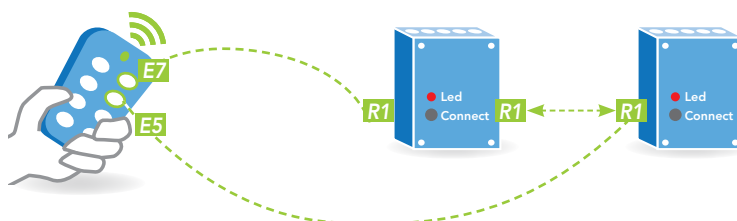
The LED will blink slowly (every second).

As the LED blinks, press "connect" on the receiver that will act as access point **R1** (use the receiver that is closest to the transmitter).

Up to 8 access point per transmitter are allowed.

E-1a Range extension with the addition of one receiver

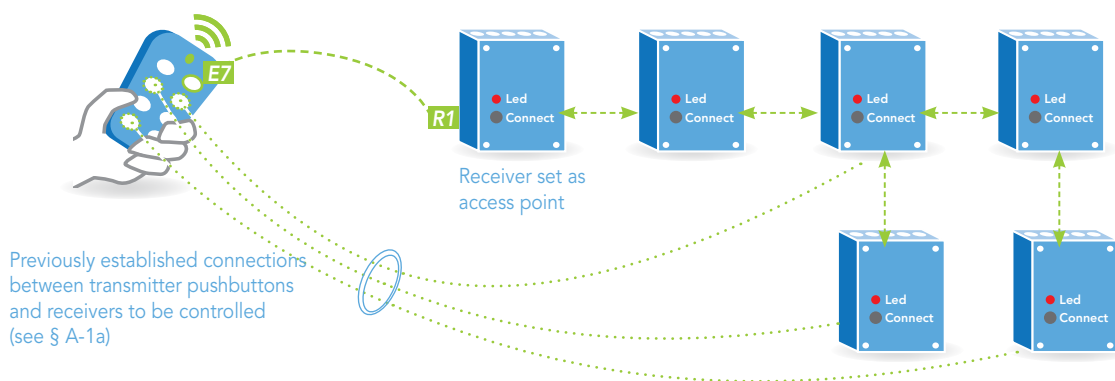
- Connect the transmitter pushbutton to the receiver you wish to control **E5 R1** see § A-1a
- Interconnect the two receivers via "Radio bus", **R1 R1** see § B
- Define the new intermediate receiver as access point **E7 R1**.



E-1b Definition of an access point to send three controls via "Radio bus" to three receivers

In this example, the following configurations have already been implemented:

- Connections between three transmitter pushbuttons and three receivers **E5 R1** see § A-1a
- Receiver interconnection on "Radio bus", **R1 R1** see § B.



E-2

DELETING THE "ACCESS POINTS" ON A TRANSMITTER

Apply 10 short press on any pushbutton on the transmitter (Configuration menu **M**). The transmitter LED will blink quickly.

As the LED blinks, apply 24 short press on any pushbutton **24**. The LED blinks 4 times to confirm deletion of all access points.





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Centralised control on "Radio bus"

To create a centralisation:

- group the receivers together by creating a "Radio bus" (see § B-1);
- connect the transmitter pushbutton to the closest receiver (see § A-1);
- configure the pushbutton to send a centralised control (§ F-1).
- for window shutter centralisation, indicate that the centralised control is for window shutters (§ F-2), otherwise it will control lighting by default.
- Specify the function of the centralised pushbutton: toggle, on, off, up, down, memory, intermediate position (see § G-1)

The "Radio bus" will then forward the control to all interconnected receivers.

F-1

CONFIGURATION OF ONE PUSHBUTTON OF THE TRANSMITTER FOR ONE CENTRALISED CONTROL

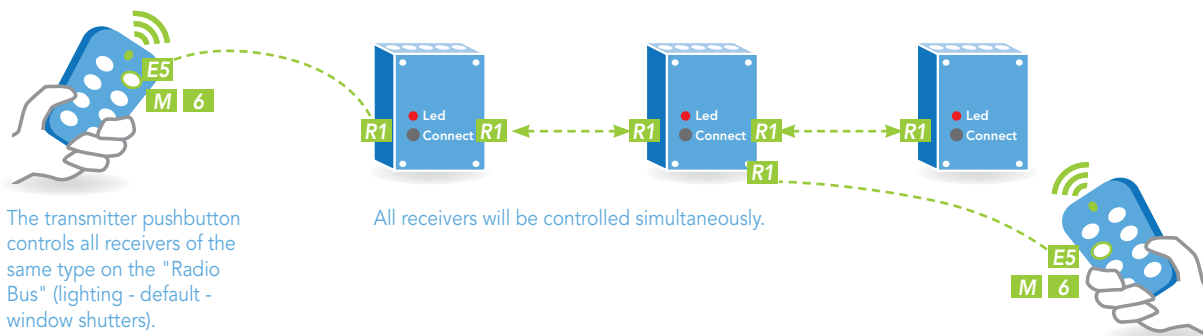
Apply 10 short press on any pushbutton on the transmitter (Configuration menu **M**).

The transmitter LED will blink quickly.

As the LED blinks, apply 6 short press on the pushbutton you wish to configure **6**.

The LED blinks 6 times to confirm pushbutton centralised mode.

F-1a Centralised control of three receivers



F-2

WINDOW SHUTTER CENTRALISATION SETTING

After following the procedure in § F-1

apply 10 short press on any pushbutton on the transmitter (Configuration menu **M**).

The transmitter LED will blink quickly.

As the LED blinks,

apply 11 short press on the pushbutton you wish to configure **11**.

The LED blinks 1 time to confirm that the centralisation will be applied to Window shutter modules.



F-3

RETURN TO CENTRALISATION FOR LIGHTING (DEFAULT)

Apply 10 short press on any pushbutton on the transmitter (Configuration menu **M**).

The transmitter LED will blink quickly.

As the LED blinks,

apply 10 short press on the pushbutton you wish to configure **10**.

The LED blinks 10 times to confirm that the centralisation will be applied to Lighting modules.



F-4

RETURN TO PUSHBUTTON DIRECT MODE

Apply 10 short press on any pushbutton on the transmitter (Configuration menu **M**).

The transmitter LED will blink quickly.

As the LED blinks,

apply 5 short press on the pushbutton you wish to configure **5**.

The LED blinks 5 times to confirm pushbutton direct mode.





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Pushbutton functions

Each transmitter pushbutton can be configured to control one out of four possible functions. The most common function is no. 1: toggle control. If the control is sent to a receiver for lighting, the lights will be switched on or off every time the pushbutton is pressed. On window shutter receivers, the shutters will move upwards, stop and move downwards. Three more functions are available: switch-on/upward movement (function no. 3, switch-off/downward movement (function no. 4) or recall of a saved lighting level or window shutter position value (function no. 2). The latter allows to recreate pre-established scenarios.

G-1

CONFIGURATION OF PUSHBUTTON FUNCTIONS

Apply 10 short press on any pushbutton on the transmitter (Configuration menu **M 1**). The transmitter LED will blink quickly.

As the LED blinks, apply short press on the pushbutton you wish to configure (see table below). To confirm pushbutton configuration, the LED blinks as many times as the touches applied.

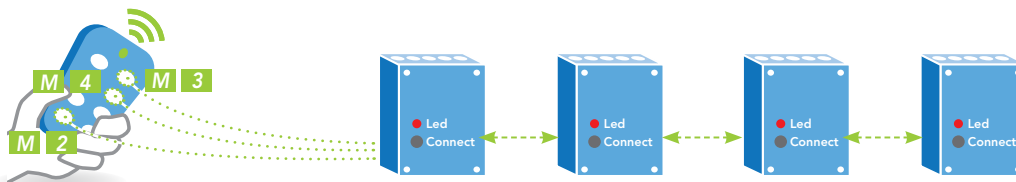
Number of press	Configurations
1	Toggle
3	100% lighting (lights)
3	Up / stop (window shutters)
4	Complete switch-off (lights)
4	Down / stop (window shutters)
2	Memory recall (lights)
2	Intermediate position (window shutters)

Note: pushbutton functions can be configured in Direct mode or in "Radio bus" mode.

G-1a Configuring a transmitter with a pushbutton for window shutter operation, one for stop and one for intermediate position.

In this example, the following configurations have already been implemented:

- Connections between transmitter and receiver pushbuttons, **E5 R1** see § A-1a
- Interconnection of receivers on "Radio bus", **R1 R1** see § B.
- Configuration of each transmitter pushbutton as centralised control, **M 6** see § F-1 and § F-2.



- **M 3** Operation pushbutton
- **M 4** Stop pushbutton
- **M 2** Intermediate position pushbutton

Unlimited number of receivers



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H

TLC2C - TLC8C - TLM1T45 - TLM2T45 - TLM4T45 - GALET - E2BP transmitters - configuration summary

To configure a transmitter, access the Configuration menu. by applying 10 short press on any transmitter pushbutton. The transmitter LED will blink quickly.



As the LED blinks, apply the requested number of short press on the pushbutton you wish to configure.

Number of press	Configurations
Pushbutton functions	
1	On/off or up/stop/down
2	Switch-on memory or Intermediate position
3	Switch-on or Up/Stop
4	Switch-off or Down/Stop
Radio centralisation mode	
5	Direct mode
6	"Radio bus" mode
Products controlled on "Radio bus" by a centralised pushbutton	
10	Lighting
11	Window shutters
Copying all pushbutton connections to a pushbutton on a different transmitter	
12	Prepares the copy to a target pushbutton
13	Copies from a source pushbutton
14	Complete transmitter duplication
15	Reset to pushbutton default settings
16	Contact pulse mode (MTR2000ER only) The receiver generates a 0.5-second pulse.
17	Contact instant mode (or relay) (MTR2000ER only) Pressing the transmitter pushbutton activates the receiver.
19	Blinking mode (MTR2000ER and MTV500ER only) Sends a blinking control (0.5 seconds for 30 seconds)
21	Transmitter connection update
24	Access point reset: deletes all access points to the "Radio bus"
25	Remote control reset to default settings: restores all default settings on the remote control



YOKIS RADIO QUICK INSTALLATION GUIDE

I

Receiver configuration summary

MODULE FUNCTION CONFIGURATION

MTR2000ER / MTR2000ERX

RADIO: RELAY WITH OPTIONAL TIMED OPERATION
2000 W RANGE



Number of press	Configurations
1	On/Off
11	2 min. timer
12	4 min
13	8 min
14	15 min
15	30 min
16	1 hour
17	2 hours
18	4 hours
19	Unlimited timing
20	Local control from switch
21	Configuration block
22	Blinking mode
23	Configuration release (with automatic reset after 6 hours)
24	Switch-off notification ENABLE/DISABLE: 60 s in minutes mode, 10 s in seconds mode
25	Set duration in seconds
26	Set duration in minutes
27	Timer/Relay mode
28	Status saving in case of power failure
29	ENABLE/DISABLE long duration
30	Reset to default values

MTV500ER

RADIO: DIMMER WITH OPTIONAL TIMED OPERATION
500 W RANGE WITH NEUTRAL



Short press	Configurations
1	Lights on/ off memory
2	100% lighting
3	50% lighting
4	Minimum lighting
6	12-hour long timer
11	2 minutes timer
12	4 minutes
13	8 minutes
14	15 minutes
15	30 minutes
16	1 hour
17	2 hours
18	4 hours
19	Unlimited timing
20	Relay mode (no dimmer functionality)
21	Configuration block
22	Blinking mode
23	Configuration release (with automatic reset after 6 hours)
24	Switch-off notification ENABLE/DISABLE: 60 s in minutes mode, 10 s in seconds mode
25	Set duration in seconds
26	Set duration in minutes
27	Minimum brightness adjustment
28	Reset default minimum brightness
29	100% mode or memory upon first touch
30	Reset to default values
35	Status saving in case of power failure

MVR500ER / MVR500ERX

RADIO: WINDOW SHUTTER MODULE



Short press	Configurations
1	Down - Stop - Up
2	Intermediate position recall
3	General opening (for centralisation on three-phase network)
4	General closing (for centralisation on three-phase network)
5	Saving current position as intermediate position
6	Deleting intermediate position
7	Intermediate position time scheduling
8	Closing time scheduling
9	Opening time scheduling
10	Delete schedules
12	Definition of lower electronic limit switch
14	Definition of upper electronic limit switch
16	Delete electronic limit switches
17	Cancelling of opposite movement in case of motor overload (toggle)
19	High/low torque
20	Up and down wire logic inversion (toggle)
21	Configuration block
22	Disable daily scheduler (toggle)
23	Configuration release
24	No torque or limit switch control
25	Reset to default values
26	Disable motor torque control (toggle)