Radio Quick Installation Guide

All you need to know

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A

RECEIVER/TRANSMITTER CONNECTION
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 touches 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 touches 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).
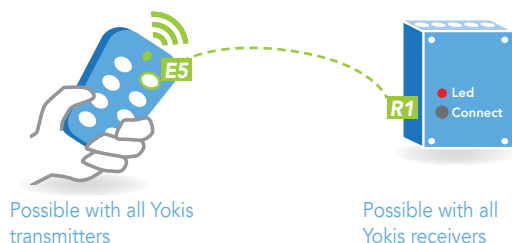
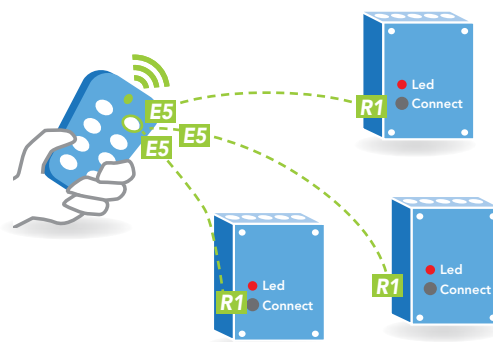### A-1   CONNECTING A TRANSMITTER TO A RECEIVER

Apply 5 short touches 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

Possible with all Yokis transmitters

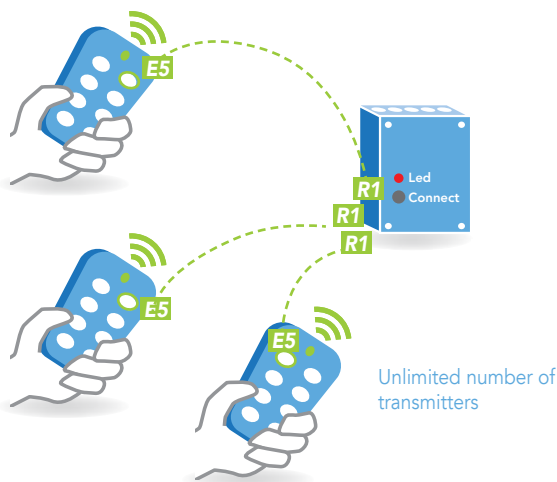Possible with all Yokis receivers

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

Unlimited number of transmitters

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| **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 touches on the pushbutton of the transmitter to delete any wrong radio connections.

⚠️ WARNING: the radio range may be reduced and/or the modules may not work correctly due to the presence of metallic elements near the transmitters or receivers and with radio interferences caused by GSM aerials or transmitters using 2.4 GHz frequencies.

A-2a   LED blinking when a receiver is controlled with a transmitter pushbutton

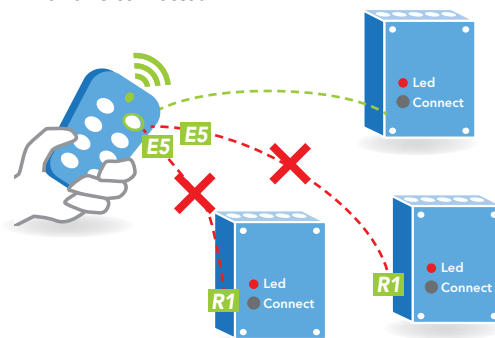| **A-3** | **DISCONNECTING A TRANSMITTER FROM A RECEIVER** |

Apply 5 short touches 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
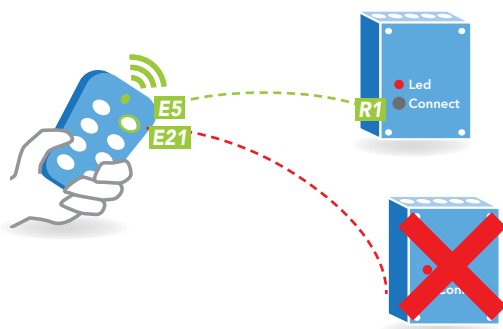
| **A-4** | **REPLACING A RECEIVER** |

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

Apply 21 short touches 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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RADIO BUS – MANUAL SETTING

It is possible to connect an unlimited number of receivers defining a "Radio bus". This allows:
• centralising by radio the control of all lights or all window shutters (without the need to wire the pilot wire)
• transmitting a control from a transmitter to a receiver out of its direct range, thanks to the help of other receivers used as "radio links"
• sending controls to "Groups" of receivers belonging to the Radio Bus.

Only Yokis Radio codes are compatible with Radio Bus mode.

Window shutter controls can also be transmitted through the lighting modules, and vice versa. For more information, please visit www.yokis.com website.

The Radio Bus can be automatically set with the new Yokis Pro App and Yokey USB key, or in manual mode, following the 5 steps below:

STEP 1   SETTING RECEIVER MODULES

(If the operation is carried out on a bench, we recommend marking each receiver with a number, so that they can be installed in the system in the pre-set order)
1) Apply a short press on the first module using the tip of a pencil (or any other sharp object) in the "connect" hole (MTV500ER module has a tab instead of the hole). The LED at the side will flash while waiting for a connection (the search flash ends after 30 sec.).
2) While the LED is blinking, press "connect" on receiver 2.
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.

The connection of the other receivers is performed in the same manner, by pairing receiver 2 to receiver 3, receiver 3 to receiver 4 and so on, repeating operations 1 and 2.

Note: The connection must not necessarily follow a linear pattern: all types of interconnections are described on page 62 of Radio Module In-depth Analysis).

STEP 2   CONNECTING THE TRANSMITTER PUSHBUTTON TO THE CLOSEST RECEIVER

(We recommend connecting the transmitter to the closest receiver, to prevent range issues)
1) Apply 5 short presses on the transmitter pushbutton selected for the centralised control.
2) While the transmitter LED is flashing, apply a short press on the "connect" pushbutton of the receiver.

Note: Since E2BPP(X) e E4BPP(X) flush-mounted transmitters are not equipped with pushbuttons, they are associated to the receivers (and are programmed) by carrying out short pulses between the common wire (WHITE) and the coloured wire of the selected channel. For these procedures, it is very handy to use a pushbutton of any series wired to the transmitter

STEP 3   PROGRAMMING "RADIO BUS MODE" ON TRANSMITTER PUSHBUTTON

Now the pushbutton just connected operates in "direct mode" (i.e. it only controls the paired module), therefore the following programming must be carried out to make the control work on all modules of the Radio Bus:
1) Make 10 short presses on the transmitter pushbutton (Configuration menu). The transmitter LED will flash quickly.
2) As the LED flashes, make 6 short presses on the selected pushbutton.
3) At the end of the presses, the LED will flash 6 times to confirm the configuration.

STEP 4   DEFINING IF CENTRALISATION APPLIES TO: LIGHTS (DEFAULT), WINDOW SHUTTERS OR "LIGHTS AND SHUTTERS"

By default the centralised pushbutton operates on lighting modules (MTR2000ERP(X), MTR2000MRP(X) and MTV500ER). If the Radio Bus has been made with these modules only, centralisation is already enabled (skip this Step).
Instead, if the centralised control must pilot window shutter modules MVR500ERP(X) and MVR500MRP(X), or lights and shutters* at the same time, you have to:
1) Make 10 short presses on a transmitter pushbutton (Configuration menu). The transmitter LED will blink quickly.
2) While the LED is flashing, make 11 presses (for window shutters) or 20 presses (lights and shutters*) on the selected pushbutton.
3) At the end of the presses, the LED will flash once (for shutters) or 20 times (lights and shutters*) to confirm the configuration.
*Version 5 modules only

STEP 5   (OPTIONAL) DEFINING THE PUSHBUTTON FUNCTION

It is possible to provide a further programming to the centralised control to obtain a particular function (e.g. make the shutter perform down movement and stop only, or make lights switch-off only, etc.).
All transmitter functions can be programmed by switching to configuration mode with 10 short presses and applying the number of presses indicated in the configuration summary table (on page 68) to the pushbutton.

IMPORTANT NOTES
Contrary to the direct mode, the Radio BUS depends on the 50Hz frequency of 230Vac power supply of the receivers. Therefore, if the receivers are connected to different phases or if phase inversion occurs even on one receiver only, then a delay in the ms order is introduced so that the receivers do not work at all or work in anomalous way: they flash before switching on/off, one (or several) receivers remain on/off, etc.
To solve this issue, simply connect the receivers to the same phase by respecting phase/neutral polarity.

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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 (MTR2000ERP - MTV500ER - MVR500ERP) 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 touch 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
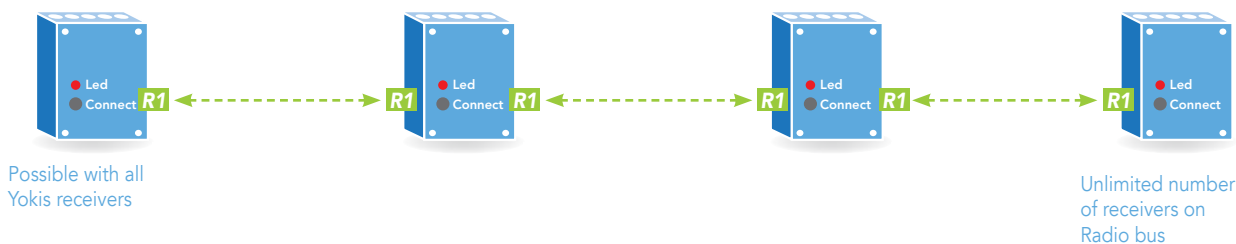
B-2   DISCONNECTING TWO SPECIFIC RECEIVERS

Apply 6 short touches 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.

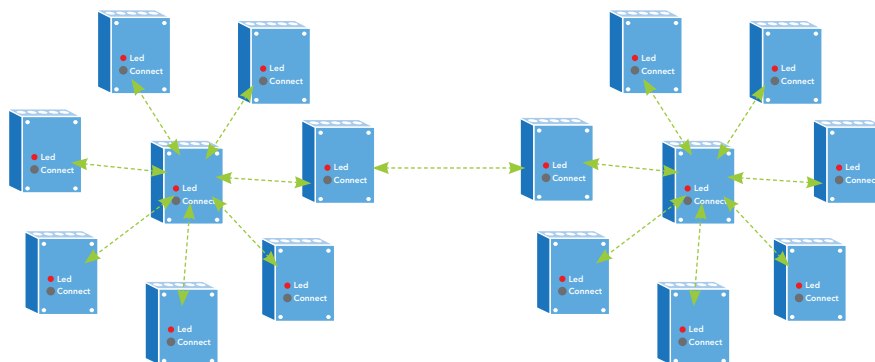**B-3a   Eliminating all connections of all receivers**

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Unlimited number of receivers on Radio bus. All receivers are compatible with each other
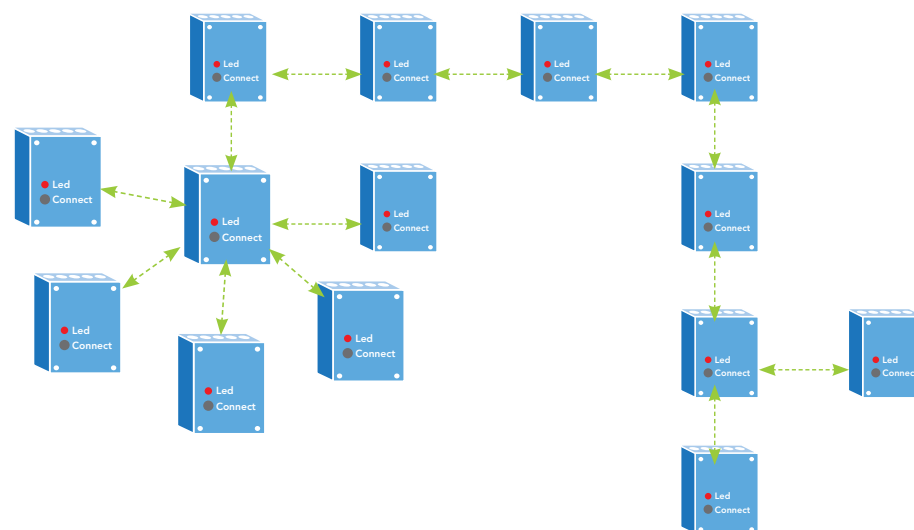
B-4a   **Linear connections (unlimited number)**
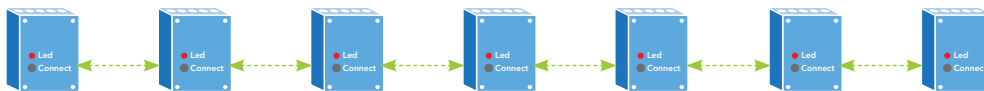
B-4b   **Star connections: unlimited number of interconnected stars, up to 7 connections on a single receiver**

B-4c   **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 touches 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.

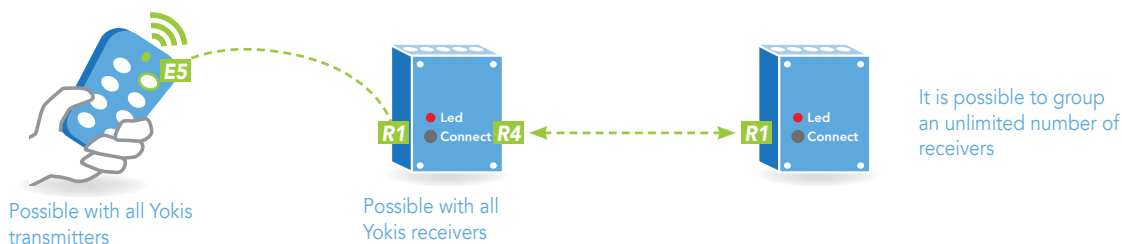To add a transmitter pushbutton to the Group:
Apply 5 short touches on the transmitter pushbutton `E5`
then, while its LED blinks, press "connect" on any receiver in the group (usually the one closest to the transmitter). `R1`

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

Possible with all Yokis transmitters

Possible with all Yokis receivers

It is possible to group an unlimited number of receivers

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

Several transmitters, connected to different receivers of the same Group, allow controlling simultaneously all receivers in the Group
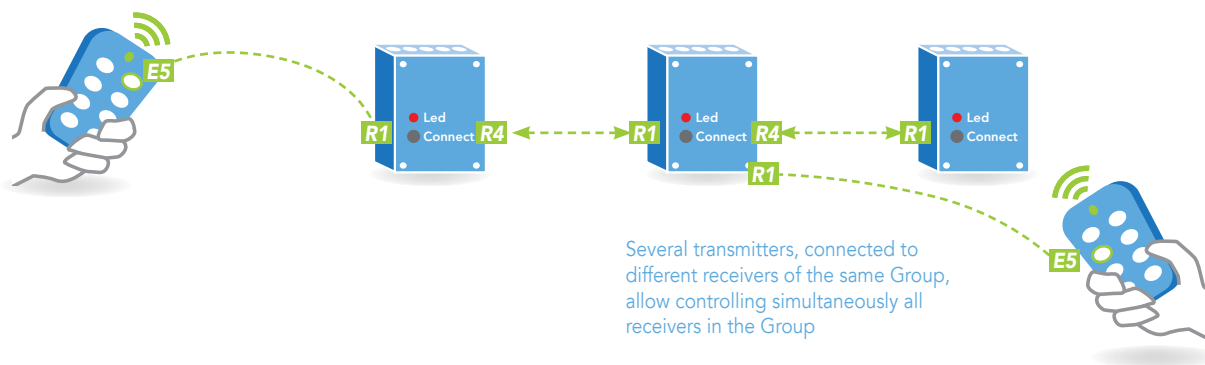
C-1c A battery-less transmitter can be used to control a group of receivers.

The local control of the wired pushbutton is sent to all receivers in the Group.

Unlimited number of receivers.
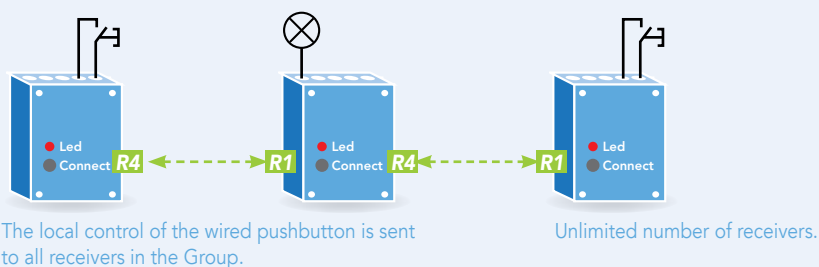
D — Pushbutton and transmitter DUPLICATION

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

Apply 5 short touches 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

New transmitter

Current transmitter

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

On the new transmitter:
Apply 10 short touches on any pushbutton on the transmitter (Configuration menu `M`).
The transmitter LED will blink quickly.
As the LED blinks, apply 12 short touches 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 touches on any pushbutton on the transmitter (Configuration menu `M`). The transmitter LED will blink quickly.
As the LED blinks, apply 13 short touches 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 touches on any pushbutton on the transmitter (Configuration menu `M`).
The transmitter LED will blink quickly.
As the LED blinks,
apply 14 short touches on any pushbutton `14`.
The LED blinks while waiting for the duplication process to complete (approximately 30 seconds).
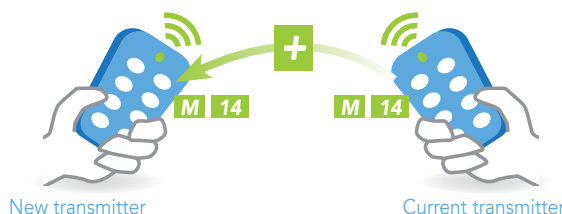
On the existing transmitter:
Apply 10 short touches on any pushbutton on the transmitter (Configuration menu `M`).
The transmitter LED will blink quickly.

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

Possible with all Yokis transmitters

New transmitter

Current transmitter

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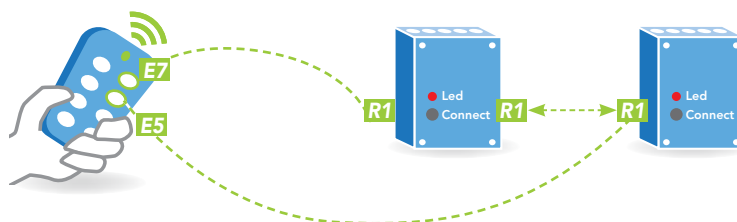
E-1b Definition of an access point to send three controls via "Radio bus" to three receivers

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.

Receiver set as access point

Previously established connections between transmitter pushbuttons and receivers to be controlled (see § A-1a)
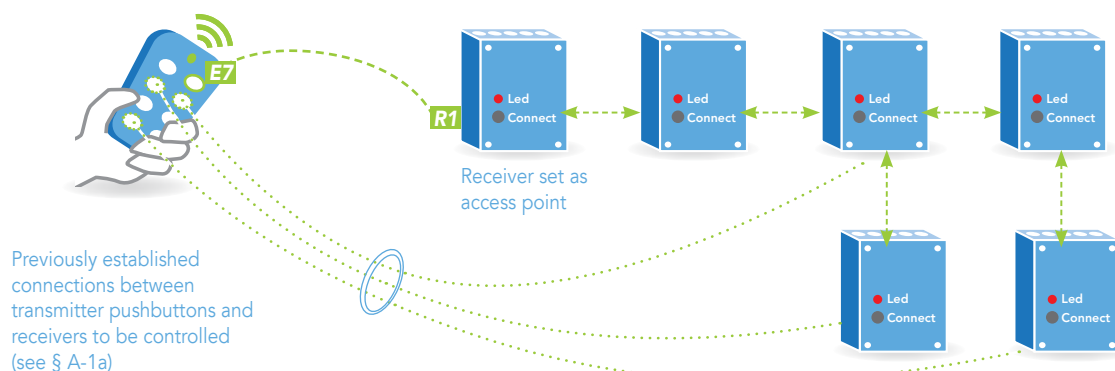
E-2 DELETING THE "ACCESS POINTS" ON A TRANSMITTER

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

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

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F — 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 touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks, apply 6 short touches 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

The transmitter pushbutton controls all receivers of the same type on the "Radio Bus" (lighting - default - window shutters).

All receivers will be controlled simultaneously.

F-2 — WINDOW SHUTTER CENTRALISATION SETTING

After following the procedure in § F-1
apply 10 short touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks,
apply 11 short touches 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.

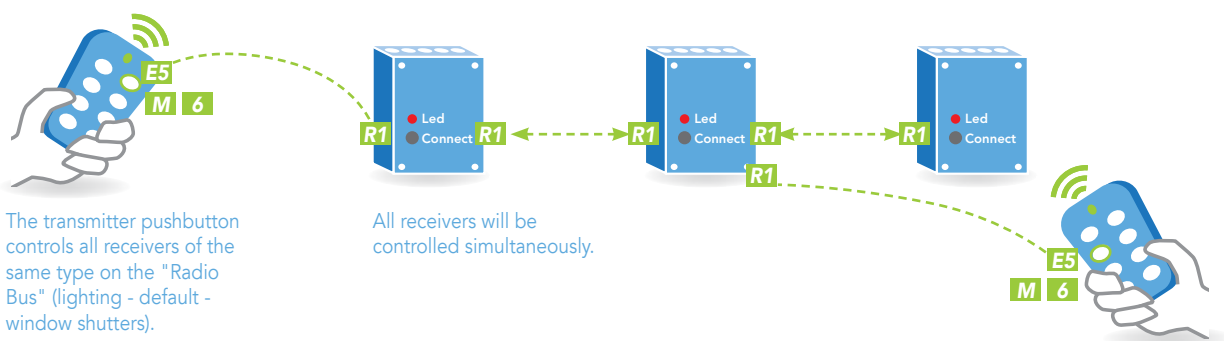### F-3 — RETURN TO CENTRALISATION FOR LIGHTING (DEFAULT)

Apply 10 short touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks,
apply 10 short touches 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 touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.
As the LED blinks,
apply 5 short touches on the pushbutton you wish to configure **5** .
The LED blinks 5 times to confirm pushbutton direct mode.

G | 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 touches on any pushbutton on the transmitter (Configuration menu **M**).
The transmitter LED will blink quickly.

As the LED blinks, apply short touches on the pushbutton you wish to configure (see table below).
To confirm pushbutton configuration, the LED blinks as many times as the touches applied.
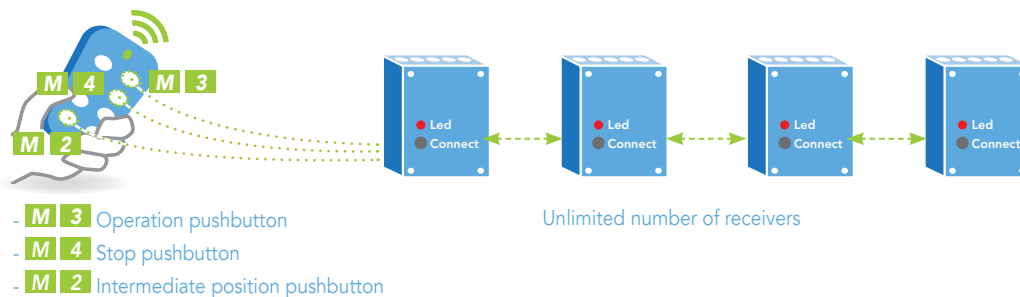
Number of touches	Configurations
1	Toggle
3	100% lighting (lights)
3	Up / stop (window shutters)
4	Complete switch-off (lights)
4	Down / stop (window shutters)
2	Memory recall (lights)
2	Intermediate position (window shutters)

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.

Unlimited number of receivers

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

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H Transmitters configuration summary
TLC4CP - TLC8CP - GALETP - E2BPP(X) - E4BPP(X) - TLM1T45 - TLM2T45 - TLM4T45

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

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

Number of touches	Configurations	Confirmation flashes
	Pushbutton functions	
1	On/off or up/stop/down	1
2	Switch-on memory or Intermediate position	2
3	Switch-on or Up/Stop	3
4	Switch-off or Down/Stop	4
	Radio centralisation mode	
5	Direct mode	5
6	"Radio bus" mode	6
	Products controlled on "Radio bus" by a centralised pushbutton	
10	Lighting	10
11	Window shutters	1
20	Window shutter and lighting (function available from transmitters version V5 and later)	20
	Copying all pushbutton connections to a pushbutton on a different transmitter	
14	Complete transmitter duplication	4
15	Reset to pushbutton default settings	5
16	Contact pulse mode (MTR2000ERP only). The receiver generates a 0.5-second pulse	6
17	Contact instant mode (or relay) (MTR2000ERP only) Pressing the transmitter pushbutton activates the receiver.	7
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⚠ WARNING! With Yokis radio codes, some configurations can be programmed on transmitters and others on receivers (using a wired button).

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I Receiver configuration summary

Before setting any configuration, unlock the module with **23 short presses** on a pushbutton connected to BP terminal.
The module will lock automatically after 6 hours, or with 21 presses from local pushbutton.

MODULE FUNCTION CONFIGURATION

MTR2000ERP(X) / MTR2000MRP(X)
RADIO: RELAY WITH OPTIONAL TIMED OPERATION 2000 W RANGE

Number of touches	Configurations
1	On/Off*
11	2 min. timer
12	4 min. timer
13	8 min. timer
14	15 min. timer
15	30 min. timer
16	1 hour timer
17	2 hours timer
18	4 hours timer
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

Number of touches	Configurations
1	Lights on/ off memory*
2	100% lighting*
3	50% lighting*
4	Minimum lighting*
6	12-hour long timer*
7	Children's room night light mode*
11	2 minutes timer
12	4 minutes timer
13	8 minutes timer
14	15 minutes timer
15	30 minutes timer
16	1 hour timer
17	2 hours timer
18	4 hours timer
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

MVR500ERP(X) / MVR500MRP(X)
RADIO: WINDOW SHUTTER MODULE

Number of touches	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)

* For these configurations the module does not need to be unlocked with 23 presses.