EN RX MULTICOM

INSTALLATION AND OPERATION MANUAL

Introduction
The universal receiver allows to an exceptional versatility in the new installations and in those already available. His flexibility is to be able to memorize in an unique receiver, remote controls of different source with fixed and rolling codes and with different frequencies. So the universal receiver allows, in most cases, to unify installations or to replace broken receivers without to change the available remote controls and therefore to guarantee a better service continuity and a minor inconvenience for the users.

Technical Data
Power supply: from 12 VAC (volts alternating current) to 24 VAC; from 12 VDC (volts of direct current)
Relay contacts: from 2A-120 VAC/2A-24 VDC, 5A-25VAC/5A30VDC (where required)
Maximum storable code: 400

Nb: Each button of a transmitter is the same as a code. For this reason it is good to consider that a radio transmitter with 4 buttons will be memorized in four different positions.

PROGRAMMING
The receiver planning allows to associate a remote control to an output of receiver.
To proceed to the planning please push the P button. The relative LED will flash to the relative exit. Pushing time after time the P button you can select the desired exit, before to proceed to the memorization. After selecting the desired output, push the remote control button that you want associate and hold down it till to the complete storage (all the LEDs remain switched on as fixed during half a second). In order to program different for one button, you have to repeat the procedure for each one.

The warnings of the LEDs that can appear in the memorization stage are:
FLASHING RELAY LED
Memorization stage. The remote control pressed button is linked to the flashing relay. During this stage please hold down and fixed manner the remote control that you are trying to memorize.
2 SLOW FLASHES LED RELAY
The button that you are memorizing is a HCS that needs the SEED or it is a HCS not known. If the remote control can transmit the SEED, you have to transmit it in this stage. If the remote control is not known or not to be able to transmit the SEED, continue to push the button that you are trying to store; in this case it will stored as a fixed HCS. Hold down it as long as the storage has not been successful.
ALL SWITCHED ON LEDs
Temporary stage. It shows the end of storage with successful, you can release the remote control button. Then you will visualize the type of memorized remote control.

LED 1	LED 2	LED 3	LED 4	Description
SWITCHED ON	SWITCHED OFF	FLASH	SWITCHED OFF	Number of flashes indicates the remote control type just registered

1 FLASH: Programmed remote control as registered.
2 FLASHES: Programmed remote control as a rolling HCS.
3 FLASHES: Programmed remote control as a fixed HCS.
FIXED SWITCH ON: programmed remote control with **MULTI 4** original code.

CANCELLATION
The remote controls cancellation takes place with an analog procedure to the planning. To delete a remote control proceed holding down the P button. While the relative LED flashes to the relay (we are in the planning stage) push the S button. In this way the receiver have all LEDs switched on: we are in the cancellation modality. In this modality push the relative button at the remote control that you want to delete and keep pressed it as long as all the LEDs will not switch off. Now the remote control has been deleted.

OPERATION OUTPUT MODALITIES
The outputs receiver are programmable to work on the basis of four modalities: on/off, impulsive, seconds timer, minutes timer. The modalities are selectable and programmable in each moment.
Push the S button to entry in the configuration of operation modalities. The relative LED at the output will flash according to the modality that has been programmed. Push the P button to change the modality. To select the following output push the S button as far as to exit from the outputs configuration. Exit from the configuration modality pushing S to save the selected plannings.
The default receiver has all selected outputs in impulsive modality. The pressure of the P button to modify the modalities flows according to the following order: ON/OFF →IMPULSIVE →SECONDS TIMER →MINUTES TIMER →ON/OFF. The pressure time after time of the P button will be recurrent in the modalities.

1 lampeggio: modality ON/OFF	☼				☼			
2 lampeggi: modality IMPULSIV	☼	☼			☼	☼		
3 lampeggi: modality SECONDS TIMER	☼	☼	☼		☼	☼	☼	
4 flashes: modality MINUTES TIMER	☼	☼	☼	☼	☼	☼	☼	☼

ON/OFF MODALITY
In this modality the output is bi-stable. At a pressure of the remote control, the output will be closed, at the following pressure will be opened. The output state is maintained until it reaches an another pressure of an any associated remote controls. Pay attention: the absence power supply brings back the output at his break state that is open.

IMPULSIVE MODALITY
In this modality the pressure of the associate remote control will maintain the output operative relay until the remote control button is not released. Pay attention: possible reception interferences can deactivate the output even if the remote control button is still held down.

SECONDS TIMER MODALITY
In this modality you can set a time, in seconds, after which the output is deactivated. If not set up otherwise, the timer has a basic planning of 30 seconds. Pay attention: the timer is reloaded every time that an associated remote control at those output is pressed.

TIMER MINUTES MODALITY
In this modality it is posible to set the time, the minutes, after whom the output is deactivated.

MINUTES TIMER MODALITY
When one of two timer modalities is selected, follow this procedure to set up the duration:
1. While you are in timer modality (seconds or minutes) push the S button for about 2 seconds, the flash will start to be regular (one flash to second).
2. Maintain the button pressed and count the flashes number that you want to set up as seconds or minutes (Ex. I count 3 regular flashes to set up 3 seconds/minutes).
3. As soon as the flashes have been counted for the planning, release the S button.

JUMPER FUNCTIONALITY MULTI 4
(P1) – ONLY **MULTI 4** ORIGINAL CODES JUMPER
activating this jumper, only the **MULTI 4** original codes will be programmed and all the other remote controls will be refused.
(P4) – SELF-PROGRAMMING JUMPER
Activating this jumper, the programming will be enabled at a distance of a transmitter starting from a transmitter present in the receiver yet, according to the modalities shown by the manufacturer of the remote control or according to the D.O.R technology. (see the self-programming paragraph). This jumper is able to program at a distance a slave with a **MULTI 4** original code created starting from a Master with **MULTI 4** original code.
(P5) – PROGRAMMING JUMPER STARTING FROM A **MULTI 4** SLAVE:
Generally it is possible to program a slave with **MULTI 4** original code only if it has been created by a master with **MULTI 4** original code. Activating this jumper, the programming will be possible at distance of a **MULTI 4** slave created starting from another **MULTI 4** slave.

Error warning
The warning error identify with others flashes because the relative LEDs to 1 and 2 relay are fixed switched on. When this happens, compare the behavior of other two LEDs with the chart underlying to understand the error type in progress.

LED 1	LED 2	LED 3	LED 4	Description
SWITCHED ON	SWITCHED ON	FLASH	SWITCHED ON	NOT FOUND CODE
SWITCHED ON	SWITCHED ON	SWITCHED ON	FLASH	FULL COURIER CODE
SWITCHED ON	SWITCHED ON	SWITCHED OFF	FLASH	FULL COURIER FREQUENCIES

NOT FOUND CODE:
You are proceeding to the cancellation of a remote control. But, in this case, the remote control that you want to delete it is not available in the

receiver or it has been wrongly understood. Please, try again if need be the procedure.

FULL COURIER CODE:
The receiver memory is full and you are trying to memorize an other remote control. Delete a not used remote control and try again.
FULL COURIER FREQUENCIES:
you are trying to memorize a remote control that has a frequency still different by those earlier memorized.

SELF-PROGRAMMING
This modality allows to program a transmitter in the receiver starting from a present transmitter yet, without working on the receiver.
In order to use this functionality it is necessary to insert the J4 jumper.
the transmitter to be inserted at a distance:
- Has to be of the same brand and the same model of the original remote control, or it has to be compatible with the same kind of freqeucny, and the model has to allow to the programming at ta distance on the original receivers of the manufacturer.
- Or a **MULTI 4** remote control can be used to program the original remote control and then take advantage of the D.O.R. technology of the **MULTI 4** to program it in the receiver. Also in this situation, the model of the transmitter has to allow to the programming at a distance on the original receivers of the manufacturer.

SELF-PROGRAMMING WITH AN ORIGINAL TRANSMITTER
Inserting an original transmitter, oyu have to follow this procedure near to the receiver (distance of 2 cm):
1) Pressing on the button of the transmitter yet programmed in the receiver (this stage is necessary to the transmitter in order to publish the same relay combination).
2) Follow the shown stages for the self-programming present in the instructions of the original transmitter. These instructions are different for each transmitter model. The operations of 1 and 2 stages have to happen within 15 seconds between the operations. That is valid also for the operations of 2 stage.

SELF-PROGRAMMING WITH A **MULTI 4** TRANSMITTER
If you want to copy the programmed transmitter in the receiver on a **MULTI 4**, follow this procedure near to the receiver (distance of 2 cm):
1) On the **MULTI 4** transmitter, while you press the 1 button, you have to press 4 times the 2 button: the white led will start to flash slowly.
2 Place near head to head the programmed transmitter in the receiver at a distance of 2-3cm and press the button of the original transmitter programmed in the receiver yet. After a data analysis, the blue led of the why transmitter will start to flash quickly. Warning: not press further the original transmitter till the stage 4.
3) Press the **MULTI 4** transmitter button where you want to program the registered code. The blue led will switch on as a fixed light in order to confirm the correct programming.
4) Press only one time the original transmitter and verify if the relay function (this procedure is necessary to allow to the new transmitter to have the same relay combination).
5) Press on the new why evo transmitter the button where the code has been registered and keep pressed till the led will start to flash. Now the new why evo transmitter will do the d.O.R. Procedure to be registered in the receiver and it will switch off.
6) The **MULTI 4** is programmed in the receiver with the same relay combination of the original transmitter and it can be used. After this procedure it can be necessary press sometimes the original transmitter before to be used. The operations of 4 and 5 stage should happen within 15 seconds between the other operations.

SELF-PROGRAMMING OF A NEW WHY EVO ORIGINAL TRANSMITTER STARTING FROM ONE PROGRAMMED YET
It is possible to program in the receiver a **MULTI 4** transmitter (slave) starting from a transmitter with a **MULTI 4** original and programmed (master) code without working on the receiver. The operation happens copying the **MULTI 4** code in the **MULTI 4** slave. It is also possible to copy a **MULTI 4** slave transmitter in another **MULTI 4** slave.
The **MULTI 4** slave transmitters can work immediately in the receiver when in the same there the master **MULTI 4** programmed yet.
In order to use this functionality, it is necessary to activate the jumper j4.
Activating only the jumper J4, only the slave **MULTI 4**, that they have been copied starting from a master **MULTI 4** yet present in the receiver, work in the receiver.
In order to use the slave **MULTI 4** programmed from a slave **MULTI 4** yet present in the receiver, it is necessary to activate also the jumper J5.
In order to program the code in a slave **MULTI 4** starting from a (master or slave) **MULTI 4** yet present in the receiver, follow these steps:
1) Press on the **MULTI 4**, that has to be added, the 1 button and press 4 times on the 2 button. The white led will start to flash slowly.
2) Place near head to head the **MULTI 4** to be added and the New Why Evo yet present in the receiver at a distance of 1cm and press on a whatever button programmed yet. The blue led of the **MULTI 4** to be added will start to flash quickly.

Press on a whatever button of the **MULTI 4** transmitter to be added for a confirmation of the programming.
The blue led will switch on as a fixed light to confirm the correct programming.

ATTENTION: all codes of New Why Evo transmitter to be added will be overwritten with codes depending on the **MULTI 4** transmitter in the receiver present yet.

The new **MULTI 4** will work immediately in the receiver with the same association of buttons of the New Why Evo in the receiver present yet. At this point, if the new **MULTI 4** there are some not used buttons in the receiver, it is possible also to use them for other necessities, overwriting other codes that deriving from fixed or rolling-code transmitters compatible with the **MULTI 4**.

REACTIVATION OF AN ORIGINAL CODE OF A **MULTI 4** TRANSMITTER
If a button of the New Why Evo transmitter has been overwritten with a code of another New Why Evo transmitter, or with a code of a generic transmitter, it is possible to reactivate the manufacturing original code.

ATTENTION: if the New Why Evo has been programmed in a receiver starting from another transmitter with an original New Why Evo, after the following operation, it will be not more associated to the receiver, having been brought back to its original state. If you want to run it again on the receiver, it will be necessary to follow again the procedure of "SELF-PROGRAMMING OF A NEW WHY EVO ORIGINAL TRANSMITTER STARTING FROM ONE PROGRAMMED YET".

To bring again a button of the New Why Evo at the manufacturing state, pressing on the 1 button, press on 4 times the 2 button. The white led will start to flash slowly. At this point press on the button to be reactivated. The blue led will switch on as a fixed light to confirm the correct reactivation. Only the pressed button will be reactivated, instead the others will keep the same code.

Receiver reset
To do a general Reset of the receiver follow this procedure:

1. Press and maintain hold down the P button and the S button for 10 seconds
2. Release the buttons when all the LEDs will start to flash quickly.

The LEDs can present the following configurations:
ALL LEDs FLASH QUICKLY: Reset in progress. It is possible to release the P and S buttons. When the Reset will be finished all the LEDs will switch off.

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