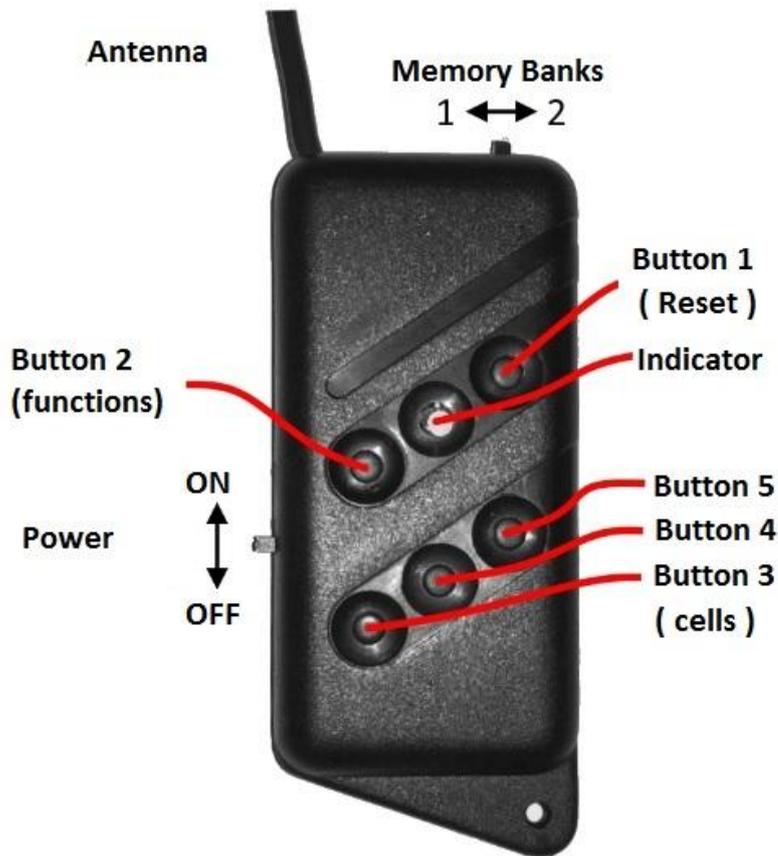


Self-learning Remote control (433,92-; 434,4 -; 315-; 868 MHz) with frequency adjustable

The device is designed to work with automation, operating at a frequency of 433.92, 868 or 315, 434.4 MHz, the following major manufacturers:



- CAME
- NICE
- DOORHAN
- HORMANN
- GSN
- FAAC
- GENIUS
- AN-MOTORS
- APRIMATIC
- BENINCA
- ALLMATIC
- MARANTEC
- DITEC
- ROGER
- DEA

NERO
DTM
ELMES
NOVOFERM

Also, the device includes algorithms that allow copying many other not stated in the list of systems.

More supported automation are presented in the annex.

The device can operate in the following modes:

Copy code

Code Selection

Copy of the code for all the listed systems with floating(dynamic rolling) code, and permanent (fixed) one.

Code selection is available only for systems **CAME TOP** and **NICE FLO**, operates at a frequency of 433.92MHz.

The same, maybe forced to copy some dynamic code, whose support is not present in the device, but working of that copied the code in this way cannot be guaranteed. Copying is possible at 4 operating frequencies of **434.4**, **315**, **433.92** and **868 MHz**. Work simultaneously on multiple frequencies is not possible, at a time reception is just one of the selected frequency.

Interface features:

The power switch is used to completely disconnect the power supply unit.

Memory Bank (switch)-Selection of Memory Bank no. 1 or no. 2 (each Bank has 6 memory cells to write codes).

1-reset button Is designed to stop any process and return to the original standby.

2 button-Function. Enabling either mode switch.

3, 4, 5 buttons are to select a memory cells in the current Bank to save/transfer. Cells from 1 to 3 are selected by simply pressing one of the buttons, 4-6 cells would be selected by combinations of any two buttons. Indicator informs by the color (green/red) and by the burning mode (blinking/lit) about the current process.

Copy mode:

When you click on the button no. 2 then the device mode is reception and the rare flash green at intervals of approx. 1 sec takes place. When receiving a signal (to trigger your original remote that you want to copy in the working range) has been accepted then indicator will blink fast green. After that it is necessary to select the Memory Bank (with upper switch), and the cell to save with one or a combination of the two lower buttons (buttons 3-5). After saving the indicator stops flashing and the unit will return to standby mode. After that you can then manage the automation to press the button (or their combination).

A long time press on the button 2, when the reception mode is enabled, switches the operating frequency. The number of flashes indicates the active after switching the indicator frequency:

1 Flash – frequency of **433.92 MHz**

2 flashes - frequency of **434.4 MHz**

3 flashes - frequency of **315 MHz**

4 flashes - frequency of **868 MHz**

Frequency is switching around the circle. When initially setting is the reception then used **433.92 MHz** frequency.

If the received signal was with a floating code that is not supported by the system, the LED will light up for 1-2 seconds and then continue to briefly flare up and the reception will continue.

In this case, you can still use the force save of received signal. Functionality is not guaranteed, but it is quite probable.

To do this press button 4 and hold until the indicator light glows steadily (approx. 2 sec.). Then release the button. The indicator light will flash, as in the case of a successful signal reception. Now you can save the message by the usual way in any cell.

Code selection mode:

Code selection for the **CAME TOP** automation turns on by pressing of **2 + 3** combination buttons, for the **NICE FLO** automatic – by **2+5** combination buttons (you must first press on button no. **2** and then without releasing it – on button no. **5**, then let go off of both these buttons).

In the process of identifying code, the LED flashes periodically, showing the activity of the process. To save the code in a process of selection, press one of the memory buttons (or a combination of them) for about 2 seconds but not later than 6 seconds after triggering automatic. Short press will not give effect, this is done to prevent accidental pressing. Flashing then turns off, which would mean that the code is stored in the cell. After code has been saved the device returns to standby mode.

In the process of identifying code the noise can be created as for working on the same frequency devices, e.g. for some car alarms or barriers. When you click the button no. **2** during the active process of identifying code, the process of selection at the time of stops (as long as you press the button), thus temporarily removing of such noise.

Interrupt the process of identifying code (like as copying) can be by the reset button.

The process of the full code iterating for the **CAME TOP** automation takes 8 minutes. It can work on with equal probability at any time. Search for the **NICE FLO** automatics takes approximately 15 minutes, but in most cases the equipment is triggered in the first 5 minutes of selection.

Range of reception in copy mode, as well as a range of code selection mode can vary widely, depending on the conditions (e.g. interference, the antenna of the automation receiver, charging level of the battery of the remote is being copied) from several meters to several tens of metres. Typical value under normal conditions is 15-30 meters.

Additional information:

You can learn by the copied code of the **CAME TOP** remote controls. Learning is provided by a standard manner, as between two the **CAME TOP** remote controls, only the role of the learning unit is the device.

Learning of usual remote controls could be only with the copied code but not by the chosen code.

Some copied code (which has a permanent, not dynamic, code) can be transferred to remote-duplicators. They typically require lengthy transferring, i.e. a long pressing of the button of the remote control. But this device transfer is fixed in time and does not depend on the time of pressing of the cell button you clicked. The transfer was longer then need after beginning of the transfer (until the LED flashes red) to press button no. 2 (*Function*) and keep it. Transmission will go, as long as the button is pressed.

Code type is persistent or dynamic, so you can determine when it is sent. If the code is permanent — the last flash of the indicator will be green (for dynamic code indicator when the transfer will blink only red).

The device operates from a single batteries **LR1** (aka "**N type**", **910A**) at **1.5 V**. Not to be confused with the standard battery A23 12 V at, which is close in size. And not miss of the polarity when installing the battery.

When the power is turned off or during changing of the battery the contents of the memory (recorded remote controls) are saved.

To select of the Memory Bank you can switch in at any time during the admission/selection, when the signal has already been adopted and so on.

When the power is on in standby mode (when no reception or selection of code) current consumption is minimal, because the device is in stand-by mode. However, the poweroff switch is recommended to avoid accidental clicks on the button.

For the successful selection of cells 4-6 when pressed two buttons at the same time it is needed to hold both buttons down the second, i.e., not let them off immediately. The pushing themselves may not be absolutely simultaneous, some difference is acceptable.

After receiving the signal, if the save is not required (for example, adopted the wrong signal that you want)-short press on **button 2** switches the unit back in receive mode, without saving.

When you copy, it is better to be closer to the source of the signal, i.e. for which one that control the automation. At selection to be closer to the receiver of the automation.

For better reception or transmission antenna should be stretched out and stay upright.

Work with systems with dynamic encoding has its own characteristics. As a rule, the alternate control of the automation with your original remote and with this device will require more than one click to trigger, it is a fundamental feature of this type of systems. After a few clicks, the device is synchronized and will open with the first click.

When you turn on the power switch on the side, the light blinks 3 times, indicating the battery charge level.

For example 3 times of green flashingshow that the battery charge is full, 2 times of green- and 1 time of red flashing show that the level of the battery is approximately 70% and so on.

3 Red flashes show that the battery is severely discharged,it is needed of her replacement.

If a strong discharge then batteries may not operate some functions, such as the device can be reset (like when you press the reset button) when you turn on sending or receiving modes.

The duration of a battery depends on the mode. The most energy consuming mode is a receiving (copy)mode, charge one battery will last approximately for 12hrs ofthe continuous receiving. When device is mainly used to control of the copied automation, there is small power consumption and charge the batteries will last for several months.

The device has the ability to update of the firmware if you connect it to a computer through the special adapter. The upgrade process is described in a separate manual.

A list of supported remote controls systems presented at the end of the statement, remote controls are grouped according to their operating frequencies. In the list are not all supported systemsbut only checked.

Frequency band 1 (433,92 MHz)

Doorhan Transmitter 4/2/02
Doorhan RCBLACK-4



Nice Flo 4/2/1
Nice Flor-s (-m) 4/2/1



Nice Very VE
Nice Very VR



Nice Smilo 2/4
Blue/Black



CAME TAM 432
CAME TOP 432/434



CAME TOP 432/434 EE
CAME ATOMO AT 01/02/04



BENINCA T4wv
BENINCA CUPIDO 4



BENINCA TO GO 2/4wv



DEA Mio Tr 2/4
DEA 273 (grey buttons)



FAAC XT4 433RC
FAAC TM1/2/3-DS



Allmatic B.RO OVER Allmatic B.RO STAR
Allmatic TECH 3



Marantec D222/D224/214
Marantec Digital 302/313/304



DITEC GOL4
DITEC GOL4C
DITEC BIXLS2



GENIUS BRAVO
GENIUS ECHO TX4



DTM NEO (and all compatible)



AN-MOTORS (black / silver buttons)



ROGER H80 TX22
ROGER H80 TX12/14



GSN TXRC09, TXRC10
GSN TR-500F



ELMES UMB, DWB and other compatible



APRIMATIC TR2/TR4



NOVOFERM Novotron 302/502



Frequency band 2 (434,4 MHz)

Nero Radio 8101-1/2/4
Nero Radio 8101-2M



Frequency band 3 (315 MHz)

Supported by a large number of control panels made in China on the basis of the encoders EV1527, PT2260, PT2262, PT2264, SC2262 and many others. The appearance can vary greatly.

Frequency band 4 (868 MHz)

Hormann HSM4, HSE2, HSP4
(blue buttons)



Came TOP 862NA



Marantec D222/D224/214

