

RKAU2/RWAU2SA (433.9 MHz) - RPAU2K/RPAU2SA (868.3 MHz) - 2 channel receiver

GENERAL CHARACTERISTICS

It is a self-learning 2-channels receiver. It can drive two different applications by means of two no-polarized relay contacts. The receiver can store up to **100 different codes** from the remote controls. Each code can be set on the desired channel and two different operation modes can be set for each code:

Mono-stable: the relay goes on when the remote control key is pressed, then goes off after 1 second.

Bi-stable: the relay goes on when the remote control key is pressed and goes off when the key is pressed again.

The superheterodyne receiver allows high reception reliability and good operation even in disturbed areas. The receiver can work with Fixed Code, Rolling Code and Secret Key remote controls.

INSTALLATION

For the receiver's good operation it is necessary to carry out installation very carefully. The receiver performance does not only depend on its technical characteristics but it is also a function of the environment's radio-electrical and ground's orographic conditions. For best results we recommend to follow the following rules :

- Place the aerial to the outside in free air and far from metal structures.
- Fix the aerial at a higher level as compared to the gate and fences.
- Make sure the aerial is within the radio-control's optical reach.

USAGE LIMIT

RKAU2 receiver works only with the following devices: **FIXY**, **SMARTY433** and **ROLLY** remote controls, Transponder **TRP1** e wireless keyboard **RTA2**.

RPAU2K receiver works only with the following devices: **SMARTY868** remote controls and wireless keyboard **RTA8**.

WARNING: *The receiver comes out from the factory without any operation settings. The first remote control stored will determine the operating mode of the receiver. Once the operation mode is set, it won't be possible anymore to change it. The only way to restore the receiver to the initial conditions is re-programming it at the laboratory of Leb electronics.*

PROGRAMMING

Manual storing of a remote control code

Channel selection			Operation mode		
<i>Number of pressures on P1</i>	<i>1</i>	<i>2</i>	<i>Mono-stable</i>	<i>Bi-stable</i>	
<i>Channel</i>	<i>1</i>	<i>2</i>	<i>Jumper JP1 (Channel 1)</i>	<i>Open</i>	<i>Closed</i>
			<i>Jumper JP2 (Channel 2)</i>	<i>Open</i>	<i>Closed</i>

Choose the operation mode for each channel by setting the appropriate **jumper** as indicated in the table. Select the channel in which to store the remote control code by pressing the button **P1** as shown in the table. Each pressure of the button **P1** causes a flash of Led. After pressing 1 or 2 times the **P1** key (it depends on the selected channel), the Led will light up permanently. Then press the button on the remote control to be stored and the Led on receiver will turn off indicating that the code has been stored. In case of no-recognition of the code, the Led will stay lit for 10 sec., then it will automatically turn off (end of operation). Repeat the above operation for each remote control code to store.

Far Storing - Alternative procedure to store a code (only with remote controls Rolling Code)

The receiver is predisposed to learn automatically and remotely **SMARTY** (programmed in Rolling Code) and **ROLLY** if **at least one remote control is already operative and it is memorized in the receiver**. The procedure is as follows:

a) Push on the new remote control to be stored the desired key for at least **6 seconds** until the Led on receiver lights up.

b) Push on the original remote control (it already works with the receiver) the operative key. The Led on receiver will turn off indicating that the new code has been stored.

In case of no-recognition of the code, the Led will stay lit for 5 sec., then it will automatically turn off (end of operation).

Secret Key - Remotely storing of codes

The receiver is predisposed to operate also in the **Secret Key** system. By means the functions of **Secret Key**, it's possible to store remotely new codes or replace codes of lost remotes, without acting on the receiver. The remote control must be previously programmed by means the software **LebManager** with the functions "**remote insertion**" or "**remote replacement**". Once programmed, simply press the remote control button close to the receiver to store the code in the selected mode. For more information on **Secret Key System** by Leb Electronics, please consult the manual of **LebManager** software.

Manual erasing of a stored code

a) Press the P2 key on the receiver. When the key is released the Led will light permanently.

b) Then transmit the code to be erased and check that the Led on receiver will go off thus signaling that the code has been erased from the memory.

In case of no-recognition of the code, the Led will stay lit for **10 sec.**, then it will automatically turn off (end of operation).

Erasing all stored codes

To erase all stored codes (total cancellation), keep pressed the **P2** key on the receiver for **10 seconds** until the Led lights up for **1 second**.

OPERATING FEATURES

The receiver comes out from the factory without any operation settings. The first remote control stored will determine the operating mode of the receiver. Once the operation mode is set, it won't be possible anymore to change it. There are three operation modes as follows:

Fixed Code

It is selected by means the insertion of a code coming from a **FIXY** or **SMARTY** (programmed with fixed code) remote control. In this operation mode is possible to store also **ROLLY** and **SMARTY** (programmed in rolling code or secret key mode) remote controls, because only the fixed part of code is managed.

Rolling Code

It is selected by means the insertion of a code coming from a **ROLLY** or **SMARTY** (programmed in rolling code) remote control. In this operation mode is possible to store also **SMARTY** (programmed in secret key mode) remote controls, because the "**Installer code**" and "**installation code**" are not discriminated.

Secret Key Code

It is selected by means the insertion of a code coming from a **SMARTY** (programmed in secret key mode) remote control. In this operation mode is possible to store **only SMARTY** remote controls programmed in **Secret Key** mode with an exclusive "**Installer code**" and "**Installation code**".

OPERATING DIAGNOSTICS

The receiver is able to report errors by means of the Led. The number of flashes discriminates the type of error:

- 5 flashes indicate that it is impossible to store the code due to the reaching the maximum number of codes (the receiver already contains 100 codes).
- 3 flashes indicate that it is impossible to store the code due to a wrong selection of the receiver channel (the **P1** key is pressed more than 2 times).
- 2 flashes indicate that it is impossible to store the code because it is a cloned code (operation forbidden for Rolling code and Secret Key code).
- 4 flashes indicate that the remote you are trying to store is not compatible with the choice of the operation mode selected at the origin.
- 6 flashes indicate that the far-storing procedure can't be completed because the remote control is not present in the receiver memory.

TRP1 Transponder

TRP1 transponder coupled to the receiver works like a **ROLLY** remote control. The **TRP1** transponder operates in Rolling Code mode.

RTA2 Wireless keyboard

RTA2 keyboard coupled to the receiver works like a **SMARTY** remote control. The **RTA2** keyboard like the **SMARTY** remote control is programmable in different operating modes.

COLLEGAMENTI

- 1 - Positivo alimentazione 12Vdc / 24Vac
- 2 - Negativo alimentazione 12Vdc / 24Vac
- 3 - Contatto N.O. relè canale 1
- 4 - Contatto N.O. relè canale 1
- 5 - Contatto N.O. relè canale 2
- 6 - Contatto N.O. relè canale 2

P1 - Pulsante inserimento codici
P2 - Pulsante cancellazione codici
LED - Led di funzionamento
ANT - Connettore antenna
JP1 - Monostabile/Bistabile canale 1
JP2 - Monostabile/Bistabile canale 2

ELECTRIC CONNECTIONS

- 1 - 24Vac / 12Vdc positive power supply
- 2 - 24Vac / 12Vdc negative power supply
- 3 - Channel 1 relay contact N.O.
- 4 - Channel 1 relay contact N.O.
- 5 - Channel 2 relay contact N.O.
- 6 - Channel 2 relay contact N.O.

P1 - Code inserting key
P2 - Code erasing key
LED - Operation led
ANT - Antenna connector
JP1 - Mono-stable/Bi-stable channel 1
JP2 - Mono-stable/Bi-stable channel 2

LES BRANCHEMENTS

- 1 - Positif d'alimentation 12Vdc ou 24Vac
- 2 - Négatif d'alimentation 12Vdc ou 24Vac
- 3 - Contact du relais canal 1 - N.O.
- 4 - Contact du relais canal 1 - N.O.
- 5 - Contact du relais canal 2 - N.O.
- 6 - Contact du relais canal 2 - N.O.

P1 - Bouton d'insertion code
P2 - Bouton d'effacement code
LED - Led de fonctionnement
ANT - Connecteur de l'antenne
JP1 - Monostable/Bistable canal 1
JP2 - Monostable/Bistable canal 2

RKAU2 / RPAU2K

CARATTERISTICHE ELETTRICHE

Frequenza di lavoro : 433,9 o 868,3 MHz
Portata contatti relè : 0,5A / 24Vac
Temperatura di lavoro : -10 / +60 °C
Alimentazione : 12Vdc o 24Vac
Assorbimento : 15 mA a riposo
Sensibilità : -102 dBm circa

ELECTRICAL CHARACTERISTICS

Operating frequency : 433,9 or 868,3 MHz
Relay contacts power : 0,5A / 24Vac
Operating temperature : -10 / +60 °C
Power supply : 12Vdc or 24Vac
Consumption : 15 mA (stand-by)
Sensitivity : -102 dBm approx.

CARACTÉRISTIQUES ÉLECTRIQUES

Fréquence de réception : 433,9 ou 868,3 MHz
Puissance des relais : 0,5A / 24Vac
Température de travail : -10 / +60 °C
Alimentation : 12Vdc ou 24Vac
Absorption : 15 mA au repos
Sensibilité : -102 dBm environ

