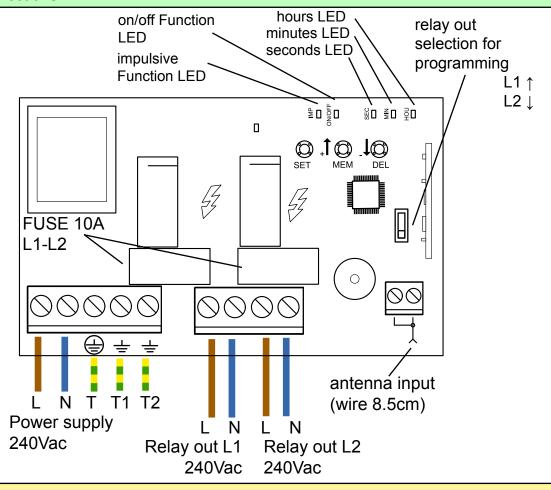CE

RADIO RECEIVER FOR 240V COMMANDS

Product code: WISEBOXTIME Radio receiver for ON/OFF commands of 240Vac loads 10A max.

Receiver for the remote control of 240V appliances up to a maximum resistive power of 2000W per output compatible with the TVLINK system. Programmable relay functions: impulsive, ON/OFF and timer controlled up to 8 hours, 59 minutes and 59 seconds.

1 - Connections

on/off Function LED

impulsive Function LED

hours LED
minutes LED
seconds LED

relay out selection for programming

L1 ↑
L2 ↓

IMP ON/OFF SEC MIN HOU

SET MEM DEL

FUSE 10A
L1-L2

antenna input (wire 8.5cm)

L N T T1 T2
Power supply
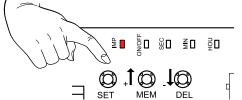240Vac

L N
Relay out L1
240Vac

L N
Relay out L2
240Vac

1.1 - To set relay function (impulsive, on/off, timer)

Before starting select the channel (CH1 or CH2, see figure) using the jumper. This channel is the one we will apply the function to according to one of the following procedures.
Warning: Once you have entered the menu you cannot leave without altering the settings. The receiver will save the settings automatically 5 seconds after the last button was released.

1.2 - To set the impulsive function (IMP)

The relay out will be with impulsive function.
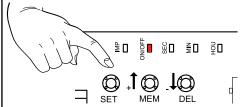

IMP ON/OFF SEC MIN HOU

SET MEM DEL

1- Press once and hold down the "SET" button until the led "IMP" lights up. Release the button and wait until the led goes out (the led will go out five seconds after the button is released and the settings will be saved automatically).

Code Number:		Model number		
WISEBOXTIME				

1.3 - To set the on-off function (ON-OFF)
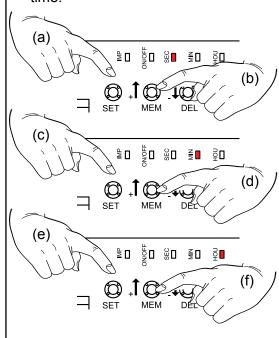
The relay out will be with ON-OFF function.

1- Press the "SET" button twice and hold down until the "ON-OFF" led lights up. Release the button and wait until the led goes out (the led will go out five seconds after the button is released and the settings will be saved automatically).

1.3 - To set the Timer function (SEC, MIN, HOU)

The relay out will be with timer function.
You can set from 1 to 59 seconds, from 0 to 59 minutes and from 0 to 8 hours: Once you have reached the maximum or minimum limit the led will switch off and the value will no longer be increased or decreased. Each time you enter the timer setting function the starting values for the seconds, minutes and hours are as follows: SEC=1, MIN=0, HOUR=0.
If you have memorized the channel in couple, you can turn-off the relay with CH2 or CH4 before the set time.

1- (a)To change the seconds, press the SET button three times and hold down until the SEC led lights up. (b)At this point we can change the seconds by increasing them using the MEM button or decreasing them using the DEL button. Each time we press the MEM or DEL button the led will go out and the value will be increased or decreased (e.g. 10 impulses correspond to 10 seconds).
- After the seconds have been modified we can either wait for the led to go out and save the settings or we can modify the minutes and hours. (c) To change the minutes press the SET button another time (within five seconds) until the MIN led lights up. (d)At this point we can change the seconds by increasing them using the MEM button or decreasing them using the DEL button.
- After the minutes have been modified we can either wait for the led to go out and save the settings for the seconds and minutes or we can modify the hours. (e)To change the hours press the SET button another time (within five seconds) until the HOU led lights up. (f)At this point we can change the hours by increasing them using the MEM button or decreasing them using the DEL button. After the hours have been modified we can either wait for the led to go out and save the settings.
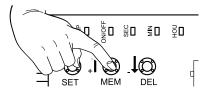
2 - Transmitters memorization

Before starting select the relay out (L1 or L2, see figure) using the switch. This out is the one we have to memorize the transmitter.
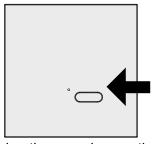Attention! The first transmitter must be memorized using the receiver (each time you start a new installation you should cancel the entire memory content by pressing DEL in the receiver)

2.1 - Memorization single push-button

The push-button will be memorised one by one.

1- Press and hold down the push-button **MEM** of the receiver, the buzzer will make a beep each time and then sound continuously.
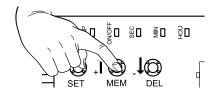
2- During the sound press the push-button which has to be memorised; the memorization is indicated by the intermittently sound of the buzzer.
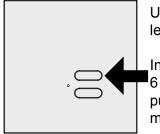
2.2 - Memorization couple of push-button

The push-buttons CH1-CH2, CH3-CH4, CH6-CH7 will be memorised in couple with following function:
CH1: On   CH3: On   CH6: On
CH2: Off   CH4: Off   CH7: Off

Use transmitters with at least 2 push-buttons.

In transmitters with 3, 6 and 7 push-buttons, push-button CH5 does not memorize.

1- Press **twice** and hold down the push-button **MEM** of the receiver, the buzzer will make a beep each time and then sound continuously.
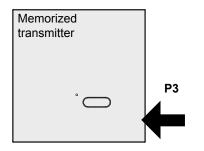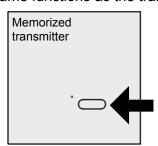
2- During the sound press one of the couple of push-buttons which is to be memorised; the memorization is indicated by the intermittently sound of the buzzer.

2.3 - To copy a function of transmitter push-button to a new transmitter
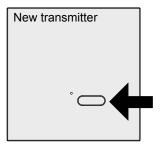
The new transmitter will have the same functions as the transmitter used for the memorization.

Memorized transmitter

P3

Memorized transmitter

New transmitter

1- Press the button **P3** located inside the **already memorized transmitter**. The enabled receiver sound continuously.
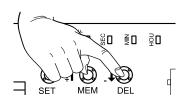
2- Within 5 seconds press a push-button of the **already memorized transmitter** from which the function has to be copied. The buzzer will interrupt the sound for 1 sec., and then will carry on for 5 seconds.
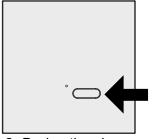
3- During the sound press the push-button of the **new transmitter** which has to be memorised; the memorization is indicated by the intermittently sound of the buzzer.

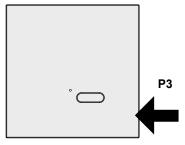## 3 - To delete a transmitter from receiver

1- Press **once** and hold down the push-button **DEL** of the receiver, the buzzer will make a beep each time and then sound intermittently and slowly.
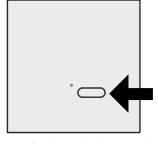
2- During the slow sound press the push button which is to be deleted; the deletion is indicated by the continuously sound of the buzzer.

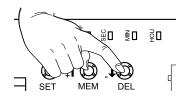## 3.1 - To delete a transmitter from transmitter

P3

1- Press **three times** the button **P3** placed inside of the transmitter. Buzzer will sound intermittently and slowly.

2- During the intermittent sound press the push button which is to be deleted; the deletion is indicated by the continuously sound of the buzzer.

3.2 - To delete all transmitter

1- Press **twice** the button **MT** and hold down. The buzzer will make a beep each time and then will sound intermittently and rapidly.
2- Hold down the push-button for 10 seconds; after that the buzzer will sound continuously indicating that the memory has been cancelled.

4 - Errors during the memorizing or deleting

If the code hasn't been memorised it could be due to the following reasons:
- the code already exists in memory.
- the memory is full.
- the indexing procedure has not been correctly started up.
If the code hasn't been cancelled it could be due to the following reasons:
- the code doesn't exist in memory.
Memory full or empty
If the memory of the receiver is full or empty the buzzer will sound three times either during the memorization phase or after the reset of the receiver.

Warning

All the operations involving the opening of the appliance must only be done by qualified technical personnel. The subject appliance must be installed only by qualified technical personnel in compliance with the standards. All connections must be rated for a single-phase power supply of 240Vac. For the disconnection from the power line, use an all-pole switch with contact with an opening of at least 3,5mm. Only suitable materials for the connections must be used to guarantee insulation that complies with current standards on the subject of electrical safety. The receiver only carries out ON/OFF commands and all safety devices required by the system must be prepared a part. Ground connection must be provided separately.
In the connection to power line and to outputs follow the indications of line and neutral. Connections wire must have a section suitable to the applied load.
In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice.

The wires must be fixed by means of an additional fastening nearby the terminals; this fastening has to be done by qualified technical personnel during the installation phase. The installation of the control unit has to be done by fixing the box vertically with the clamps downwards on a flat surface.
The programmer is in conformity with the RAEE and RoHS directive.

Antenna:
The correct installation and connection of the antenna is fundamental in order to obtain a good range for the installation.
Connect a 8,5 cm piece of wire to the antenna pole connection on the device.
As an alternative (and for better results) use a tuned antenna connected to the receiver via a coaxial cable RG 58 (impedance 50 Ohm) with a maximum length of 15 metres (mod. ANT868).
The device's signal reception could be disturbed by several factors such as:
- the presence of electrical frequency noise being transmitted by other appliances working in the same environment and on the same frequency.
- appliances installed in metal containers or shielded from metal parts; only use containers made of plastic.

TECHNICAL SPECIFICATIONS

-Power supply	240 V $\sim$	-Reception frequency	868.3 MHz
-Relay out	10A 240 V $\sim$ cos φ 1	-Intermediate frequency	10.7 MHz
		-Sensitivity (finely tuned signal)	1 µV
		-Protection grade	IP54
		-Operating temperature range	-20° — +50°C

- The maximum number of transmitters that can be memorized is 42.