



SIMPLIFIED AMBROGIO HANDS FREE OPENING DEVICE QK-AMBSTX AND QK-AMBSRX

Installation and User's Manual V01

TECHNICAL FEATURES

Receiver Module:

- ☒ Power supply: from 9 to 15Vdc with consumptions 11mA at rest, 50mA maximum
- ☒ Digital input and output relay 12V/5A
- ☒ Memory to combine up to 84 transmitters
- ☒ Dimensions 50 x 56 x 30

Transmitter (active tag):

- ☒ Power supply: 1 lithium battery CR2025 a 3V -150mAh (replaceable)
- ☒ Rate: 3 seconds with lifetime more than 1 year
- ☒ Codify: Rolling Code (dynamic code)
- ☒ Range: superior at 10 meters (in free field)
- ☒ Case in gray polycarbonate, dimensions 40 x 47 x 5 mm

CONNECTIONS

| | |
|-----------------|--|
| 1 -RED | Positive power supply, from 9 to 15V |
| 2 - BLACK | Negative power supply |
| 5 -YELLOW | Negative Input for the combination / erasing transmitters |
| 6- YELLOW -BLUE | Connected to the positive gives a pulse only to the first recognition and closes automatically; if not connected, doesn't activate the automatic closing |
| 7 -BLUE | Common contact of the relay |
| 8 -GRAY | Closed contact of the relay |
| 9 --PURPLE | Open contact of the relay at rest |

FUNCTIONING

TRANSMITTER

TRANSMITTER transmits continuously an encrypted code every 3 seconds. By the reception of the transmitted signal from the tx, the module recognizes the presence of the authorized person to use the vehicle and therefore, activates the internal relay for at least 5 seconds. If the reception of the signal is obstructed by radio interference, we recommend you to use the secondary button hidden under the label, pressing and releasing it repeatedly (will be signaled by a flashing of the led placed under the label) to accelerate the code transmission. TRANSMITTER is powered with a Lithium 3V battery, replaceable. Changing the battery does not require specific skills, but a certain care is required in the selection of the polarity of the battery. We recommend to write down the orientation of the existing battery in the tx before you proceed to its substitution.

When the tx is active, it transmits continuously its code. We recommend you to power it off, when is not necessary, by the button above the label, pressing it for at least 7 seconds, will be signalled by a fixed flash of le led.
The Trasponder is supplied switched off from the factory.

Pairing transmitter with receiver

Turn on the transmitter, pressing on the label for about 8 seconds until the LED will light above the label. Match the transmitter to the receiver, connect to ground the Yellow wire until the led switches on, and then remove it. Within the next 5 seconds, while the led remains on, press the button on the transmitter to combined to the reader. If the tx is combined for the first time, the LED emits a series of three short flashes, otherwise emits a single flash to indicate that the transponder code was already present in memory. Repeat the same operation while the light remains on, or wait until the LED switches off, to exit from the procedure of combination. Is possible combine up to 84 transmitters.

Deleting transmitter from receiver

To delete all the memorized tx, situation asked for example at the loss of one of the devices, is sufficient connect to the ground the yellow wire. After around 2 second, the red led will be switched on and after other 10 seconds the led emits a series of flashing to confirm the deleting of all the memorized tx, please wait that the led switching off to exit to from the procedure of deleting. To combine new transmitters, please see the procedure described in the previous chapter.

HOMOLOGATIONS AND CERTIFICATIONS

The device "RECOGNITION KIT BY RADIO 24V" and its derivate are conform to the European directives 72/245/CEE and 2009/19/CE, being tested and according to the following standards:

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|--------------------------------|--------------------------------------|
| EN 301489-1 V1.8.1 (2008) | EN 301489-3 V1.4.1 (2002) |
| EN 300 220- 1 V2.1.1 (2006-04) | EN 300 220- 2 V2.1.2 (2007-06) |
| EN 50371 (2 002-03) | EN 60950- 1:2006 EN 60950-1/A11:2009 |

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