



1 - MAIN FEAT

Power supply: 12-36 V ac/dc.
- Decoding: HCS with Manufacturer Code ABTECNO.
- Maximum number of remote controls that can be stored 500. Output: no. 2 relays of signal (max 1A).

2 - POWERING UP THE RECEIVER

The receiver is equipped with two LEDs (LED A and LED B) to signal the successful power supply to the board.
When the receiver is first turned on, these two leds light up briefly and then turn off.

3 - NORMAL OPERATION

During normal use, the 2 LEDs (LED A and LED B) are associated with the operation of the 2 output relays. Thus led A is associated with the operation of relay A while led B is associated with the operation of relay B. With the receiver powered and at rest, the leds will be off and will only light up when a channel of the radio control will activate the respective relay. With this function you will always have a visual indication of the correct operation of the receiver for each relay.

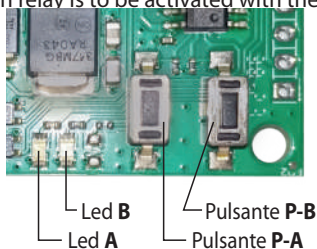
NB: it is not possible to drive the outputs during programming or cancellation.

4 - RADIOCOMMAND MEMORIZATION The maximum number of radio controls that can be stored is 500 units. To store the radio controls in the receiver, programming mode must be enabled by holding down the P-A button on the receiver until the LEDs provide a succession of visual signals a 2-second intervals, following the following order: LED A, LED B, LED A+B and then repeat the sequence in the same order.

Signals that provide an indication of which relay is to be activated with the remote control to be stored (led A relay A only, led B relay B only, led A+B both relays A and B).

Once you have identified the choice of the type of relay output desired, release the P-A button at the relevant visual indication of the LEDs.

At this point it is possible to memorise the radio control by pressing the



Multifrequency transmitter and receiver

INDUS6

cod.
APE-550/4006



INDUS RX

cod.
APE-550/4033



Assembly and operating instructions



button that you wish to associate with the selected relay (the button of the radio control that has to be memorised must be pressed until the two relays both light up for a few seconds to confirm correct memorisation).

NB: To store new radio controls, it will be necessary to repeat the operation from the beginning, by pressing the P-A button again.

5 - DELETION OF A REMOTE CONTROL

To delete the memory of a remote control incorrectly inserted in the receiver or to change its pairing to a particular relay you must carry out the following procedure:

- Keep the P-A button pressed until the leds provide a succession of visual signals, every 2 seconds, in the following order: led A, led B, led A+B then repeat the sequence in the same order. In this cancellation procedure it is not as important to select the relay as in the memorisation procedure so you can release the P-A button as soon as LEDs A and B provide visual indication.

- Once P-A button has been released, press P-B button until the two leds A and B will light up.

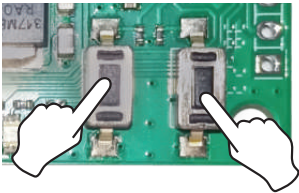
- Press any button on the remote control to be erased from the receiver memory, until the two LEDs turn off, thus indicating correct deletion.

At the end of this procedure, none of the remote control keys will be no longer recognised by the receiver.

NB: During these steps, a press of the P-A button on the receiver determines the exit from the erase mode.

6 - RESET OF ALL RADIO CONTROLS

In the case where it is needed to delete a lost radio control or all stored radio controls from the memory, it will be necessary to completely format the receiver memory by following the procedure below.



Button P-A Button P-B

This is the signal that all remote controls have been deleted from the memory of the receiver. No button of the previously associated remote controls will have any more effect if pressed.

7 - STORING A RADIO CONTROL WITHOUT ACCESSING THE RECEIVER BOARD

In order to add a new remote control to the receiver memory without actually accessing the card, it is necessary to clone a radio control of a previously memorised radio control, by carrying out the following procedure:

- Identify the radio control already stored and which you wish to clone (i.e. replicate its functions)
- Approach the receiver and press the two buttons on the top of the transmitter for more than 2 seconds.
- When the 2 relays of the receiver start flashing, press any button of the new radio control to be memorised until the two receiver LEDs will switch



off. At this point, the keys and functions of the new radio control will be memorized and associated with the relays exactly like the keys of the original radio control from which the copy was made

8 - RELAY CONFIGURATION

Relays can be configured to operate in four different modes: bistable, impulsive, seconds timer and minutes timer which can be modified and set at any time (by default the outputs are set in pulse mode). Pressing the P-B button for more than 2 seconds will cause LED A to start flashing with a sequence of blinks corresponding to the mode of relay A, to select relay B you will have to press the P-B button again for change the mode of the selected relay, press the P-A button until when the relay LED will flash according to a set mode (see table); each time P-B is pressed again, the configuration switches to the next mode in a cyclic manner.

1 Blink	☼	IMPULSIVE
2 Blinks	☼ ☼	BISTABLE
3 Blinks	☼ ☼ ☼	SECOND TIMER
4 Blinks	☼ ☼ ☼ ☼	MINUTE TIMER

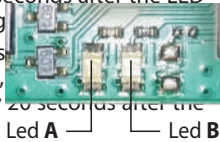
Once the desired operating mode has been set, wait for the end of the flashing of the LED.

9 - SETTINGS TIMER

While in timer mode (seconds or minutes), press the P-B button for about 2 seconds and wait for the LED to flash steadily (one blinking per second). Hold down the P-B button and count the number of flashes of the led you want to set as seconds or minutes.

For example:

- To set a relay output timing of 20 seconds you need to select the relay, select mode 3, press the P-B and count 20 flashes and release the P-B button to exit the programming (wait about 20 seconds after the LED goes out before verifying the correct timing setting).
- To set a relay output timing of 20 minutes you need to select the relay, select mode 3, press the P-B and count 20 flashes, and release the P-B button to exit the programming (wait about 20 seconds after the LED has gone out before verifying the correct time setting).
- To set a relay output timing of 20 minutes you must select mode 4, press the P-B button and count 20 flashes, button to exit the programming (wait approximately 20 seconds after the LED goes out before checking the correct time setting).



Led A Led B

NB: the value will be stored only in the 2 modes 3 and 4, and it is possible to select a range of values from 1 to 255.

10-ERROR CODE

The two LEDs on the receiver also provide the error indication in the case of an attempt to delete/transmit a remote control not present in the memory or in the case where a new remote control cannot be added due to the depletion of space in the memory of the receiver.

Led A	Led B	Description
Steady on	Blinking	Code not found
Blinking	Steady on	Out of code memory

As required by Directive 2012/19/EC on Waste Electronic and Electrical Equipment (WEEE) it is necessary to: not dispose of WEEE as mixed municipal waste and collect it separately; contact your local municipality for information about separate collection facilities for WEEE. This symbol placed on the electronic device, indicates the differentiated collection of electrical and electronic equipment (Ref. Directive 2012/19/EC). Adequate differentiated collection for subsequent disposal of the discarded equipment for environmentally sound recycling, treatment, and disposal helps to avoid possible adverse environmental and health effects and promotes the recycling of the materials from which the product is made.



DECLARATION OF EU CONFORMITY

Product: INDUS6 / INDUS RX
Manufacturer: AB TECNO S.r.L. - Via Cicogna, 95 - 40068 San Lazzaro di Savena (BO)
The Manufacturer declares under its own responsibility that the product covered by the declaration meets all the provisions applicable in the following Directives:
EMC Directive 2004/108/CE and subsequent amendments and that the following standards have been applied: **EN61000-6-2, EN61000-6-3, EN60335-1.**

Bologna, lì 01/04/2019

AB TECNO's CEO
Ulisse Pagani

