

INSTALLATION MANUAL

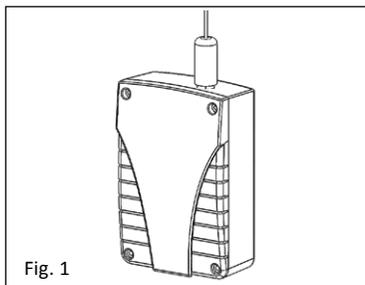


Fig. 1

1 - Introduction

The Transmitter Solutions HIVE500 PLUS 433 receiver (Fig. 1) is a single conversion superheterodyne receiver with integrated rolling-code decoding. The demodulation is AM/ASK.

A special algorithm allows to keep synchronized transmitter and receiver. The receiver having dry contacts relays output, can be connected to any type of device (gate, garage door, rolling shutters, awnings, anti-burglar appliances, lighting, etc.).

The transmitter memorization can be carried out either with 2 push-buttons of the receiver or remotely using only the keys of the transmitter. The setup of the remaining parameters of the receiver can be done only with the 2 push buttons of the receiver. All the setting steps are displayed by a backlit LCD display.

The internal data can be saved/restored to/from an external memory.

1 Technical specifications

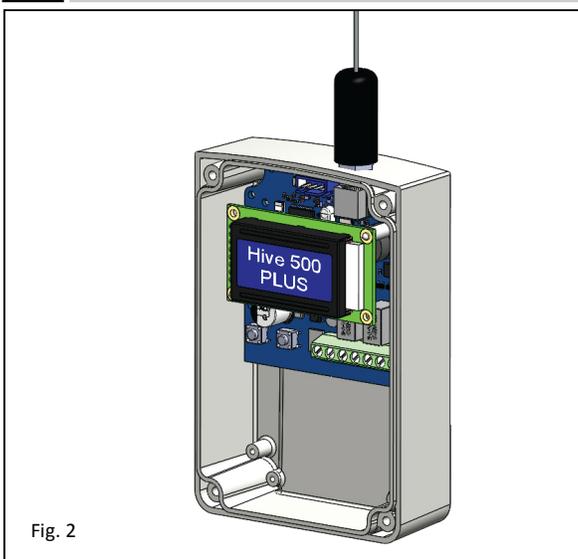


Fig. 2

Receiver type:	Supereheterodyne.
Demodulation:	AM/ASK.
Operating frequency:	433.92 Mhz.
Sensitivity (for good signal):	-115 dBm.
Input load:	50 Ohm.
Power supply :	12 o 24 V ac/dc.
Current consumption (@12Vdc)	from 25 mA to 90 mA (max)
N° of relays:	2 (1 NO and 1 NO / NC).
Max power on relay output:	24VA max 60V .
Memory capacity:	500 transmitters
Security protocol	Keeloq® Hopping code
N° of code combinations	2exp64
Operating temperature:	from -20 to + 70 °C.
Dimensions (Fig. 2):	120 x 80 x 40 mm
Weight:	65 gr.
Relay operating mode	Pulse, step, timed
Delay	from 1 sec. to 24h: 59 min.

2 Mounting

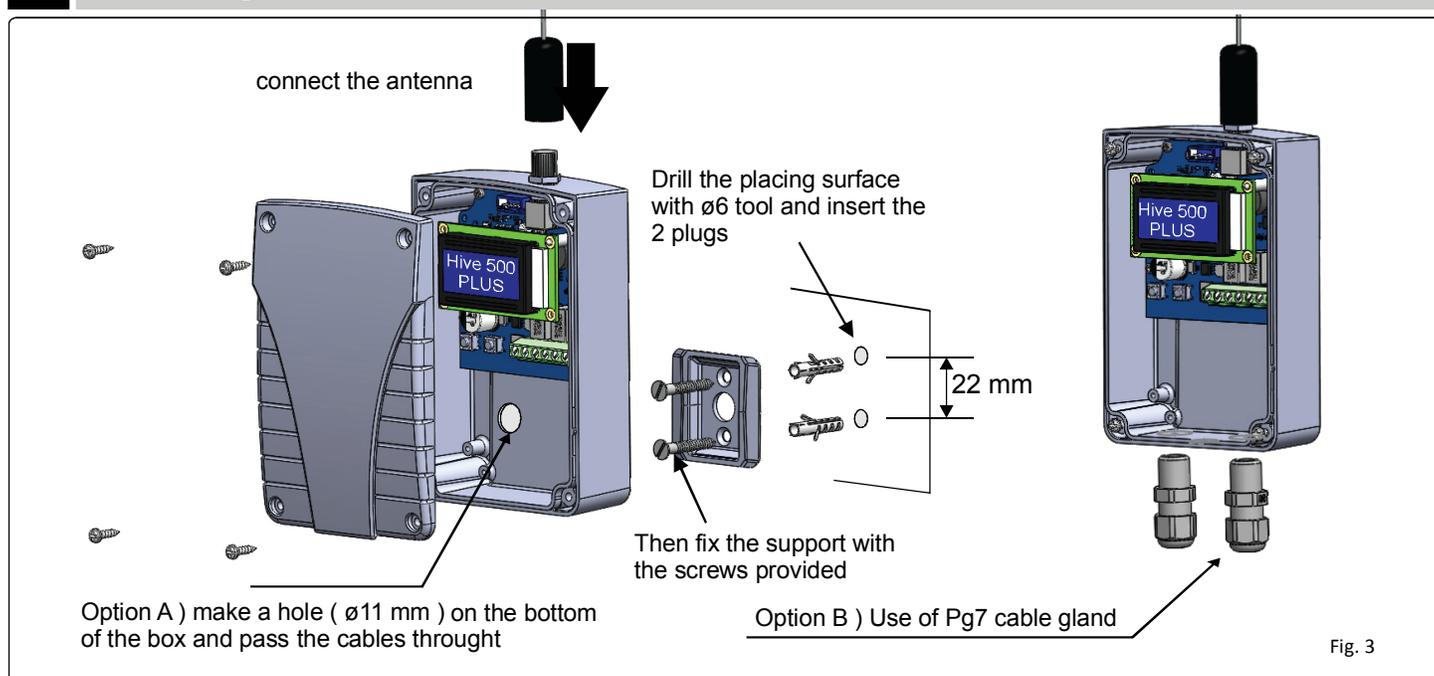
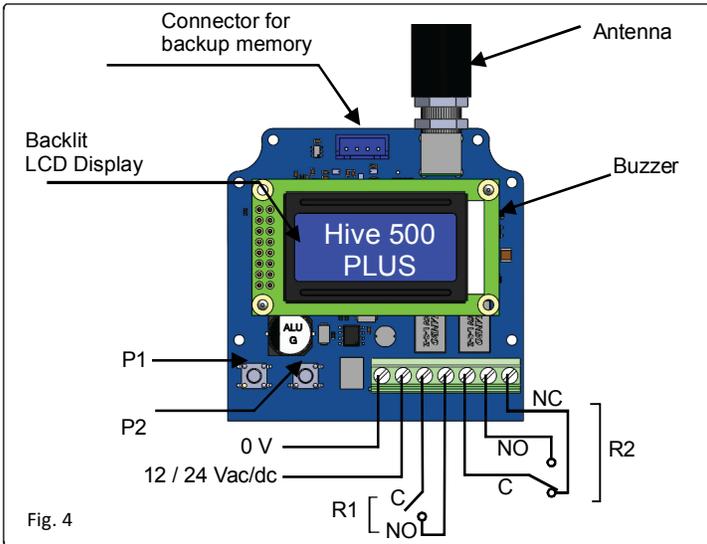


Fig. 3

3 Layout & Wiring



4 Compatible transmitters

TRAF433TSPW4K
 STINGRAY 433TSPW1V, 433TSPW2V
 TRATSMASPROS2TR2641E4.TS
 TRARAY433TSPW4V
 433TSPW1K-C, 433TSPW1KB-C, 433TSPW2K-C
 SEDK2641A4M.TS

5 Warnings



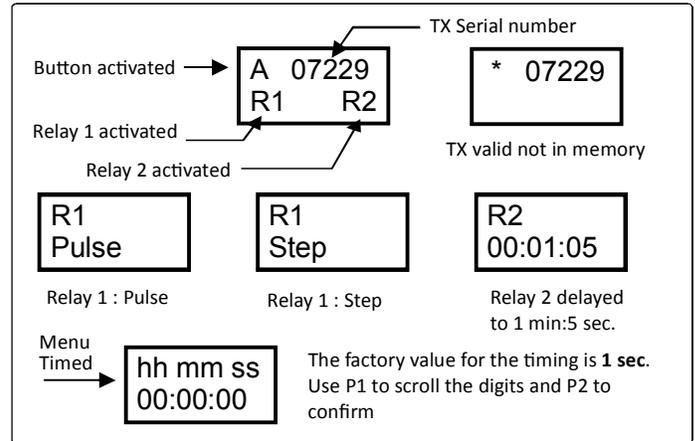
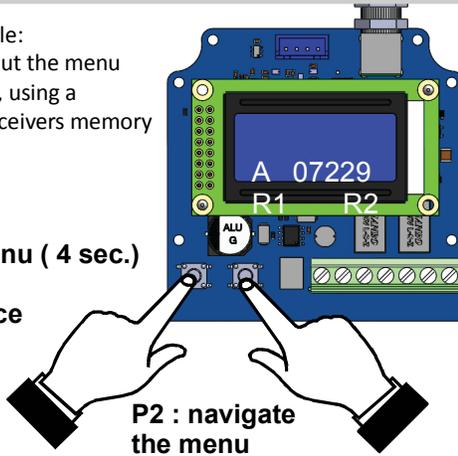
The receiver allocation is very important for the best operation of the system. Place the receiver far from interference sources such as big magnetic fields or radio emissions. The installation and the positioning of the antenna is very important as well. Before installing the antenna it's advisable to make some tests on the site. The distance between 2 receiver must be at least 1,5m

The appliance full comply with the requirements of the following European Directives : 2006/95/CE, 2004/108/CE, 99/05/CE and the Standard EN 60335-1.

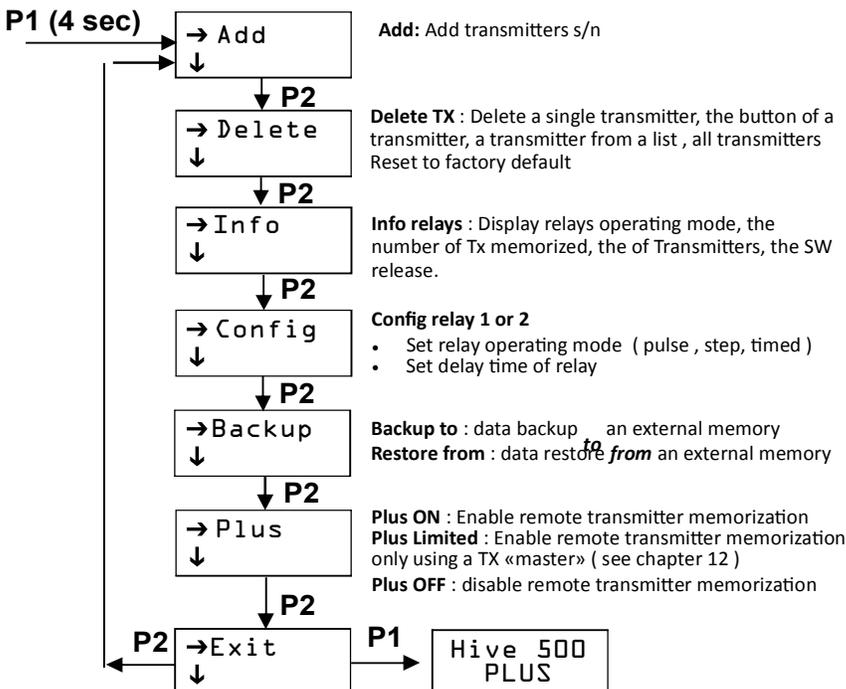
6 Display legend

There are 2 methods available:
 1) Using P1 and P2 throughout the menu
 2) Remote from the receiver, using a transmitter already in the receivers memory (Mode PLUS).

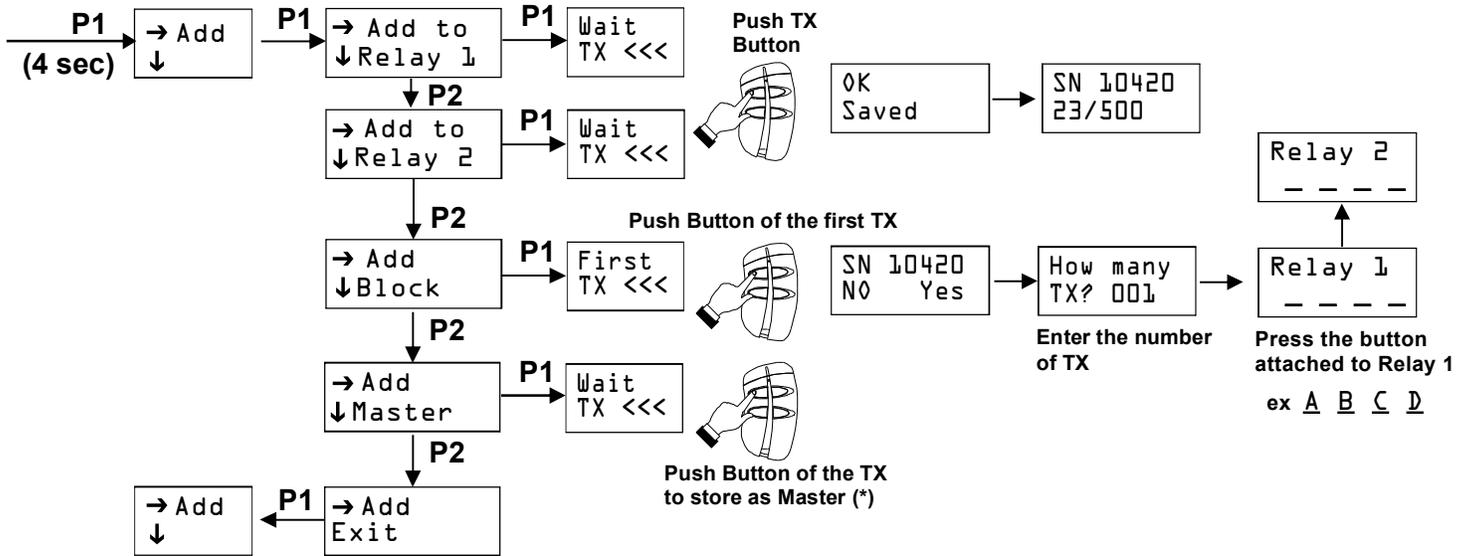
P1 : enter the menu (4 sec.) or confirm the choice



7 Programming / Navigation menu



8 Menu Add

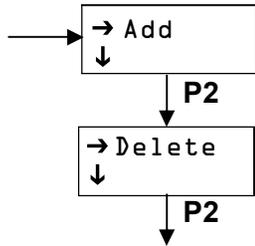


(*) NOTE : MASTER TRANSMITTER MUST BE 2 OR MORE BUTTONS TO PROGRAM BOTH RELAYS

The first TX added acts as Master: that means that it can be used to add more tx using the PLUS option. The submenu Add Master allows to assign the Master property to any other TX already in memory even not memorized on the first position. Once a TX has been assigned as Master, its property cannot be removed unless to delete it from the memory using the Delete menu. The transmitters «Master» are identified with the «#» in the list.

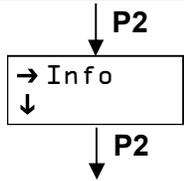
9 Menu Delete

P1 (4 sec)



- **Delete TX :** Delete a transmitter. It's necessary to have the transmitter available because the system requires the RF transmission;
- **Delete Button :** Delete the single button of a transmitter;
- **Delete by List :** Delete a transmitter from a list. In this case it's enough to know the SN of the transmitter to delete to complete the erasure;
- **Delete All TX :** Delete all transmitters;
- **Delete setting :** Reset to factory default: delete all the transmitters and reset the operating mode of the relays to PULSE.

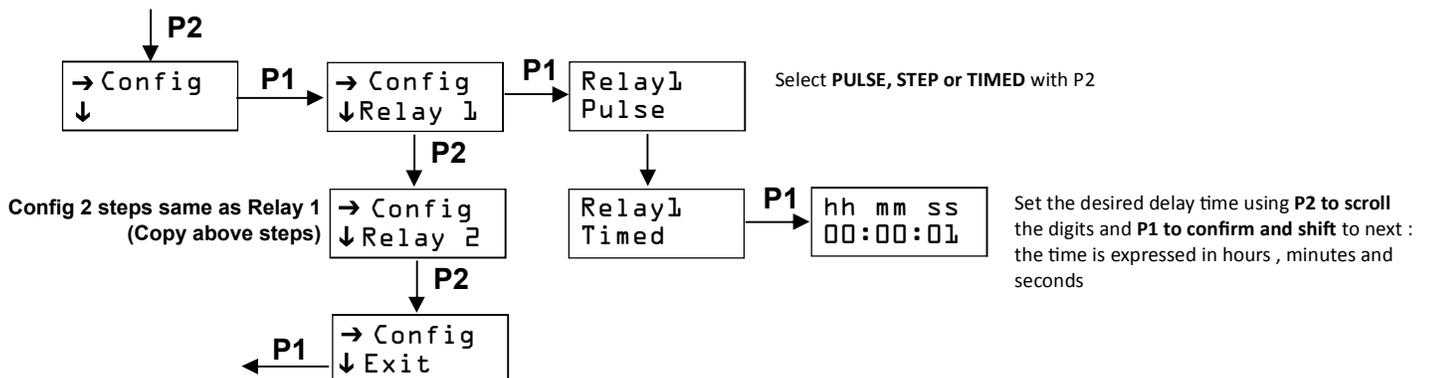
10 Menu Info



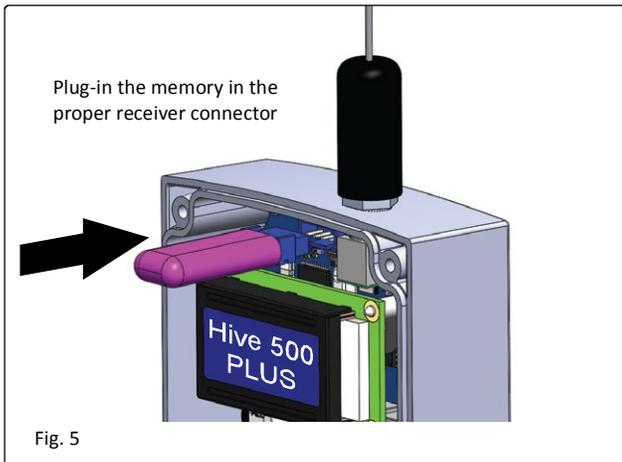
- **Info relays :** Display relays operating mode
- **Info N. Users :** Display number of Tx memorized
- **Info List :** List of Transmitters / Relays used.
- **Info Version :** SW release.

11 Menu Config

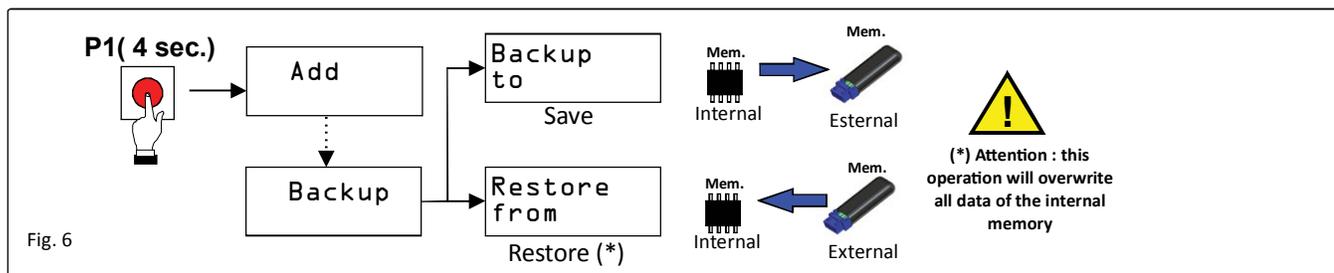
Allows to set the operating mode of the relays R1 and R2, as Pulse, Step or Timed. In case of Timed it's possible to set the delay time from 1 sec. to 24h: 59 min.



12 BACKUP / RESTORE



Allows to create a backup of the memory data base and save it onto an external memory (fig. 6)



13 Memorization PLUS

The memorization PLUS allows to add a new transmitter remotely, without using the push-buttons P1 & P2. It's enough to use a transmitter «Master».

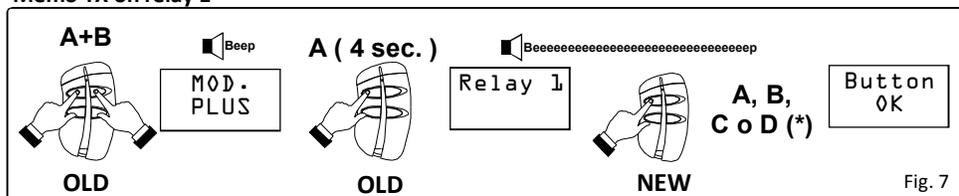
A transmitter «Master» can be :

- 1) the first transmitter added
- 2) any transmitter memorized and changed as «master» using the **Add Master** submenu

The PLUS feature can be : **ON, Limited or OFF**

- **Plus ON** : remote transmitter memorization enabled;
- **Plus Limited** : remote transmitter memorization enabled only using a TX «master» (see fig. 7-8);
- **Plus OFF** : remote transmitter memorization disabled;

Memo TX on relay 1



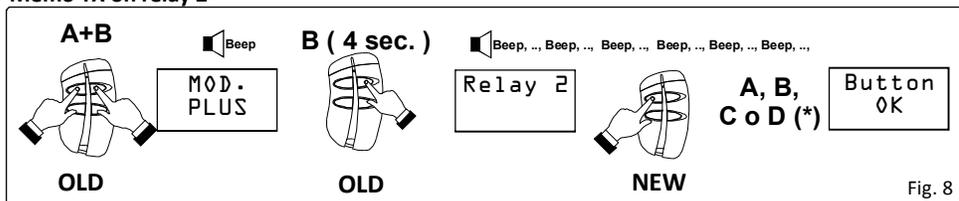
(*) : Push the button of the new transmitter before the end of the beep.

NOTE : The memorization PLUS is active only if there is, at least, one transmitter in memory.

If the memory is empty the memorization of a new transmitter can be done both using P1-P2 and remotely.

Once memorized the first, any next transmitter can be stored remotely if the option PLUS is "ON" or "Limited" or always using P1 and P2.

Memo TX on relay 2



NOTICE

Any changes or modification to Transmitter Solutions equipment not expressly approved by Transmitter Solutions could void the manufacturer's warranty and the user's authority to operate this product.

WARRANTY

The warranty period of Transmitter Solutions 433 products is 24 months, beginning from the manufacturing date of the transmitter. During this period, if the product does operate correctly, due to a defective component, the product will be repaired or replaced at the sole discretion of Transmitter Solutions.

The warranty does not extend to the transmitter case which can be damaged by conditions outside the control of Transmitter Solutions or to battery life.



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