FW
r1.2

IS105 Rev.03 20/01/2022

H85/TDR

Tastiera radio a codice numerico

ROGER ACCESSORI

IT - **Istruzioni e avvertenze per l'installatore**
EN - **Instruction and warnings for the installer**
DE - **Anleitungen und Hinweise für den Installateur**
FR - **Instructions et mises en garde pour l'installateur**
ES - **Instrucciones y advertencias para el instalador**
PT - **Instruções e advertências para o instalador**

ROGER TECHNOLOGY

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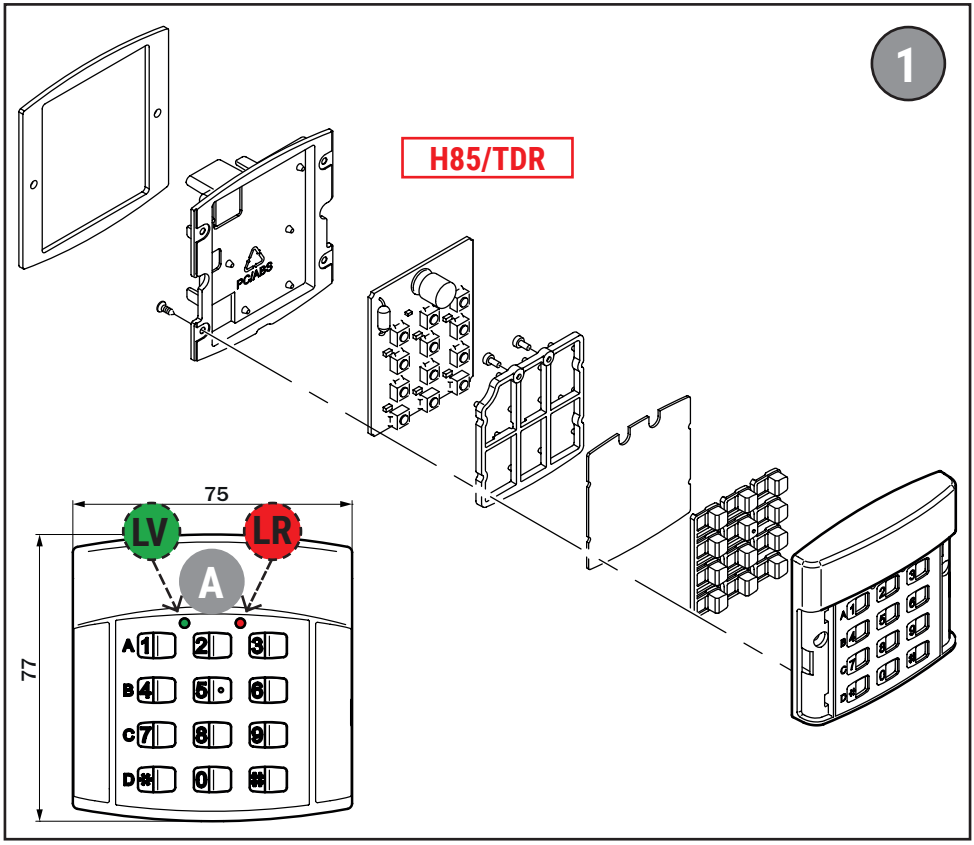
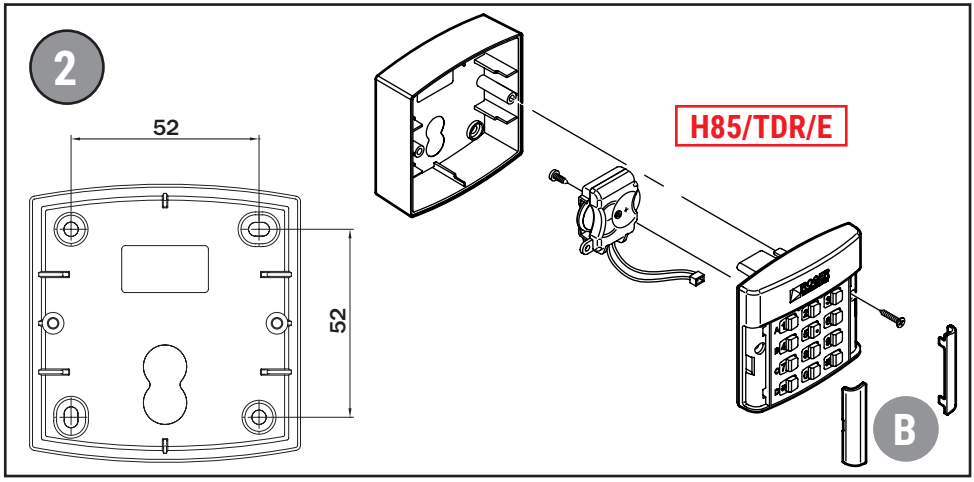
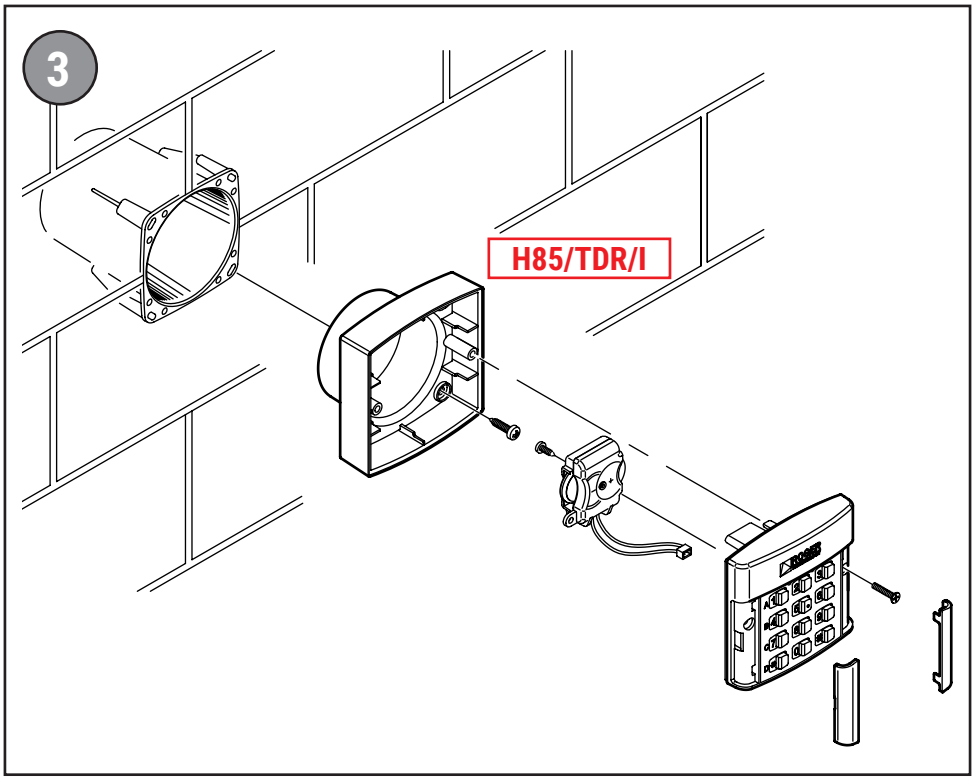

1
H85/TDR
75
77
LV
LR
A
A 1 2 3
B 4 5 6
C 7 8 9
D * 0 #


2
52
52
H85/TDR/E
B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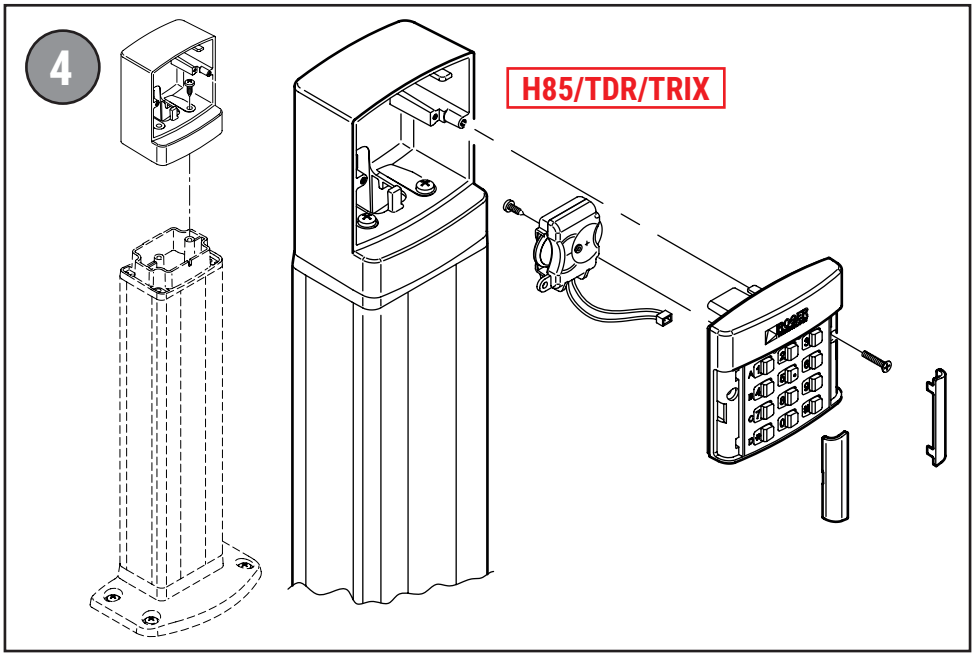
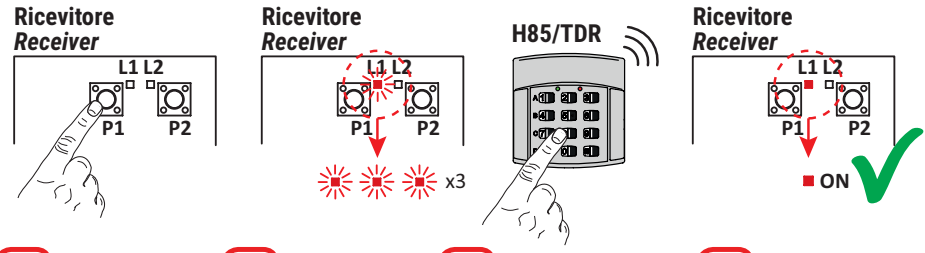
H85/TDR/I


4
H85/TDR/TRIX

5 MEMORIZZAZIONE DI H85/TDR SU RICEVITORE
STORAGE OF H85/TDR ON RECEIVER



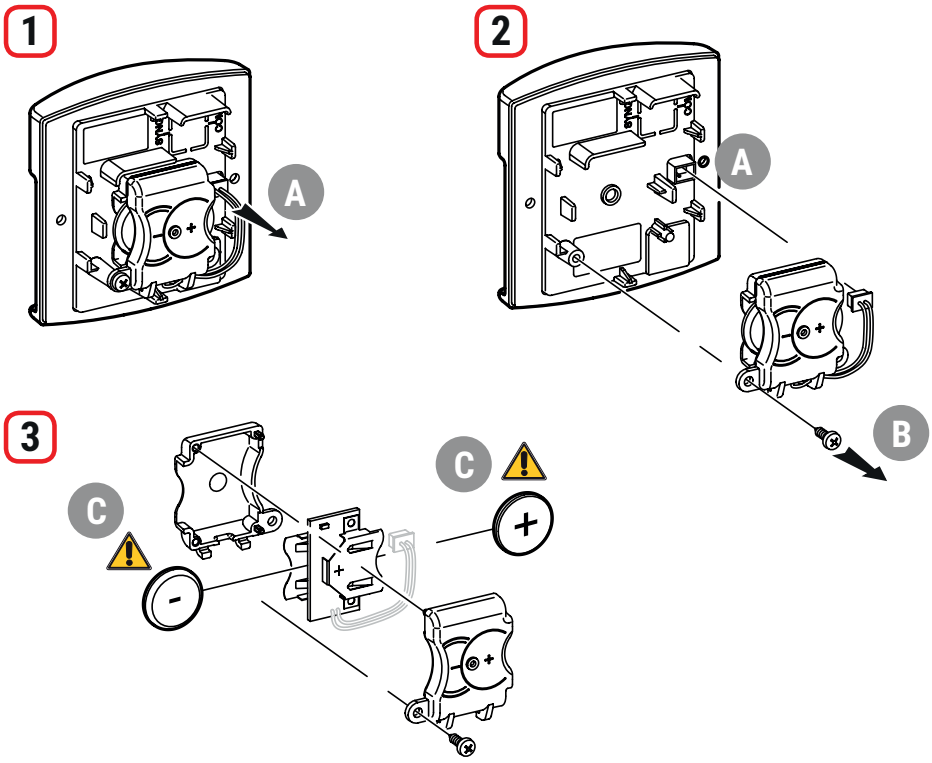
1 Premere/*Press*

2 LED lampeggia
LED flashing

3 Esempio/*Example*
34741 * 4/B

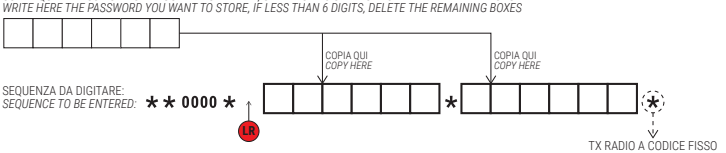
4 LED = ON = OK

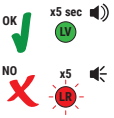
6



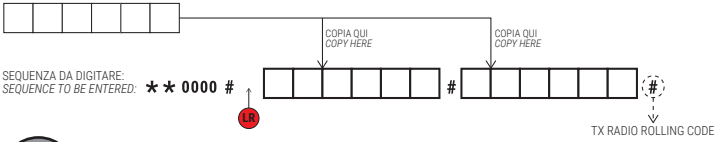
7 MEMORIZZAZIONE DELLA PASSWORD (PARTENDO DA PASSWORD DI FABBRICA “0000”)
STORING THE PASSWORD (STARTING WITH THE FACTORY PASSWORD “0000”)

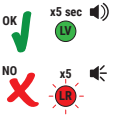
SCRIVI QUI LA PASSWORD CHE VUOI MEMORIZZARE, SE MENO DI 6 CIFRE CANCELLA LE RIMANENTI CASELLE
WRITE HERE THE PASSWORD YOU WANT TO STORE, IF LESS THAN 6 DIGITS, DELETE THE REMAINING BOXES





SCRIVI QUI LA PASSWORD CHE VUOI MEMORIZZARE, SE MENO DI 6 CIFRE CANCELLA LE RIMANENTI CASELLE
WRITE HERE THE PASSWORD YOU WANT TO STORE, IF LESS THAN 6 DIGITS, DELETE THE REMAINING BOXES

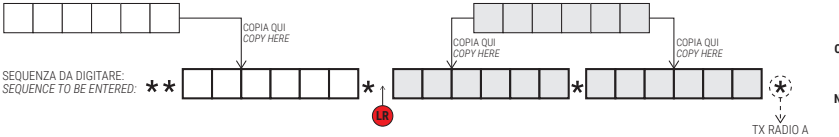


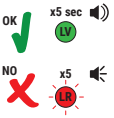


8 CAMBIO DELLA PASSWORD
CHANGING THE PASSWORD

SCRIVI QUI LA PASSWORD ATTUALE
ENTER YOUR CURRENT PASSWORD HERE

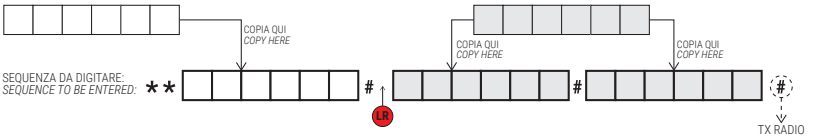
SCRIVI QUI LA PASSWORD CHE VUOI MEMORIZZARE
WRITE THE NEW PASSWORD YOU WANT TO STORE HERE

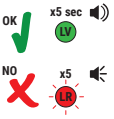




SCRIVI QUI LA PASSWORD ATTUALE
ENTER YOUR CURRENT PASSWORD HERE

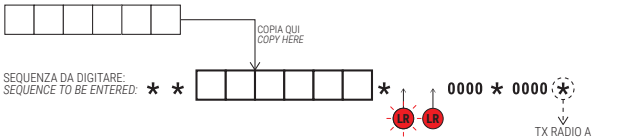
SCRIVI QUI LA PASSWORD CHE VUOI MEMORIZZARE
WRITE THE NEW PASSWORD YOU WANT TO STORE HERE

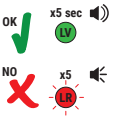




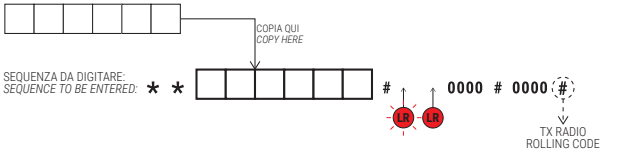
9 RIPRISTINO DELLA PASSWORD AL VALORE DI FABBRICA (0000)
RESET THE PASSWORD TO THE FACTORY DEFAULT VALUE (0000)

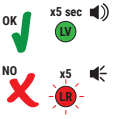
SCRIVI QUI UNO QUALUNQUE DEI CODICI UTENTE MEMORIZZATI NELLA TASTIERA
WRITE HERE ANY OF THE USER CODES STORED IN THE KEYBOARD



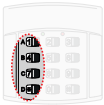


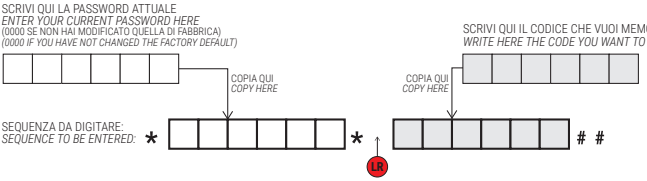
SCRIVI QUI UNO QUALUNQUE DEI CODICI UTENTE MEMORIZZATI NELLA TASTIERA
WRITE HERE ANY OF THE USER CODES STORED IN THE KEYBOARD

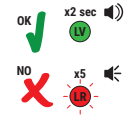




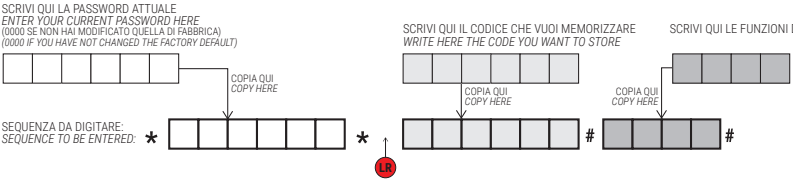
10 MEMORIZZAZIONE DI UN CODICE UTENTE CON ABILITAZIONE DI TUTTE LE FUNZIONI (A, B, C, D)
STORAGE OF A USER CODE ENABLING ALL FUNCTIONS (A, B, C, D)

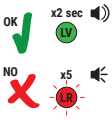




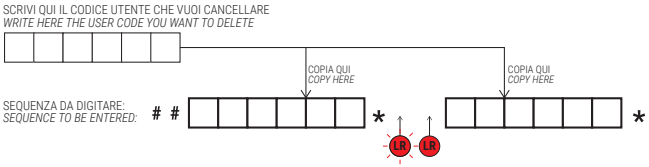


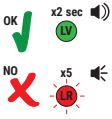
11 MEMORIZZAZIONE DI UN CODICE UTENTE CON ABILITAZIONE SOLO DI ALCUNE FUNZIONI (SCELTE TRA A, B, C, D)
STORAGE OF A USER CODE ENABLING ONLY CERTAIN FUNCTIONS (CHOICE BETWEEN A, B, C, D)



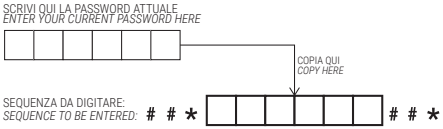


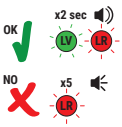
12 CANCELLAZIONE DI UN CODICE UTENTE
DELETION OF A USER CODE





13 CANCELLAZIONE COMPLETA DELLA MEMORIA CODICI
COMPLETE DELETION OF CODE MEMORY





EN

1 General safety precautions

This installation manual is intended for qualified personnel only.
ROGER TECHNOLOGY cannot be held responsible for any damage or injury due to improper use or any use other than the intended usage indicated in this manual.
Installation, electrical connections and adjustments must be performed by qualified personnel, in accordance with best practices and in compliance with applicable regulations.
Before installing the product, make sure it is in perfect condition.
Disconnect the mains electrical power before performing any work. Also disconnect any buffer batteries used.
Only use original spare parts when repairing or replacing products.
The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as they are a potential source of danger.
WARNING! Handle electronic parts and terminals with extreme care, as these parts are highly sensitive to static electricity.

2 Technical specifications

MAXIMUM NUMBER OF STORABLE USER CODES	450
MAXIMUM NUMBER OF DIGITS PER USER CODE	6
MINIMUM NUMBER OF DIGITS PER USER CODE	3
NUMBER OF BITS OF KEYPAD IDENTIFICATION CODE	16 (fixed code) - 32 ("rolling code")
NUMBER OF CODE COMBINATIONS	65536 (fixed code) - 4.294.967.296 ("rolling code)
NUMBER OF BITS TRANSMITTED	28 (fixed code) - 144 ("rolling code")
TRANSMISSION FREQUENCY	433.92 MHz
MODULATION	AM/ASK
MAXIMUM TRANSMISSION DISTANCE IN UNOBSTRUCTED ENVIRONMENT	100 m
AVERAGE POWER CONSUMPTION WITH KEYPAD ACTIVE	12 mA
BATTERY	2xCR2032
BATTERY LIFE	at least 2 years with 10 activations/day
OPERATING TEMPERATURE	-10° C +55° C
DEGREE OF PROTECTION	IP54
PRODUCT DIMENSIONS **H85/TDR/I** **H85/TDR/E** **H85/TDR/TRIX**	dimensions 75x77x60 Weight: 119 g dimensions 75x77x41 Weight: 114 g dimensions 75x98x58 Weight: 256 g

3 Description

The **H85** code-based control system enables automated motorized systems to be controlled by entering a code.

The numeric code wireless keypad is available:
- **H85/TDR/E**: for wall mounting (fig. 2);
- **H85/TDR/I**: recessed (fig. 3);
- **H85/TDR/TRIX**: for pillar mounting (fig. 4).

4 Functionality of the H85/TDR keypad

The **H85/TDR** numerical code wireless keypad consists of 12 keys, 4 of which also with a channel activation function, for code-based access control.
Channel keys **1/A**, **4/B**, **7/C** and ***/D** do not have predefined functions and may be associated with an function of the radio receiver.
It has two indicator LEDs, one green **LV** and one red **LR** (fig. 1, detail A), and a buzzer.
The red LED **LR** flashes during radio transmission in fixed code mode (with radio receiver **H93/RX22A/I**, **R93/RX12A/U** and **R93/RX12A/I**); the green LED **LV** flashes during transmission in rolling code mode (with radio receiver **H93/RX2RC/I** and **R93/RX2RC/U**).
Up to 450 user codes can be stored, each of which must have a minimum of 3 digits and a maximum of 6.
The **H85/TDR** wireless code keypad can manage multiple radio receivers, each of which activated with a channel key (**1/A**, **4/B**, **7/C** and ***/D**).

5 Keypad installation

Depending on the type of keypad selected (see **figures 2, 3, 4**), proceed with the installation as shown below:
- Undo the securing screws and open the **H85/TDR** keypad. Fix the keypad to the desired surface with suitable screws (not supplied).
- Connect the batteries to the relative connector on the electronic circuit board (see fig. 6).
- Reassemble the **H85/TDR** keypad and fasten the side covers, ensuring they are positioned correctly (fig. 2 detail **B**).

6 Programming sequence

1) Store a user code; make a note of its value as it may be used to reset the password in the future (you must know one of the user codes in the memory).
2) Store **H85/TDR** on the radio receiver.
3) With **LV** and **LR** LEDs off (keypad in stand-by) check that the user code has been successfully stored by entering the activation sequence.
4) Store any other user codes (other than the first).
5) Save a new password (factory default is 0000), note its value.
NOTE: changing the password is recommended to ensure the security of the installation.

7 Storing a user code (fig. 10-11)

At first power on, to begin using the keypad, the default password is **0000**.

ATTENTION!
It is NOT possible to store the user code **0000**.
It is NOT possible to store a user code that is the same as the password (example: user code **1234** and password **1234**).

Example 1: memorization of user code 34741, password 0000, enabling of all function keys **1/A, 4/B, 7/C, */D** digit:

* 0000 * *(the red **LR** LED lights up)* **34741** # #

Example 2: memorization of user code 34741, password 0000, enable only function key **4/B** digit:

* 0000 * *(the red **LR** LED lights up)* **34741** # **B** #

N.B.: if the password entered is correct, the red **LR** LED will light up. If it doesn't light up, repeat the procedure with the correct password.

If the procedure is successful the green **LV** LED lights up for 2 s. The buzzer sounds until the LED goes out.

Figure 10-11 illustrates the examples given above.

8 Programming the H85/TDR keypad on the radio receiver (fig. 5)

Once the user code has been stored, the **H85/TDR** keypad is usable as a fully functional 4 key/channel radio remote control **1/A, 4/B, 7/C, */D**.
To store the radio keypad, proceed as follows:
- With the receiver powered and switched on, press **P1** or **P2** for the function you want to enable on the **H85/TDR** keypad.
- The respective LED **L1** or **L2** flashes slowly 3 times to indicate that acquisition mode is active.
- During this period, enter the user code (e.g. **34741**) followed by an asterisk (*) and the key/channel you want to store on the receiver (e.g. **4/B**).
- If the storage on the receiver is successful, the LED on the receiver **L1** or **L2** lights steadily.
- If LED of receiver **L1** or **L2** flashes rapidly 3 times, the user code is already stored in the receiver memory.
- Once the keypad has been stored, LED **L1** or **L2** flashes slowly 3 times to indicate that the unit is waiting for further programming. If it receives no further programming input during this period, the receiver automatically exits programming mode.
- If you wish to activate another function of the receiver with a different key/channel on the keypad, store this additional key/channel on the receiver as well by repeating the procedure.

9 Activating a user code / transmission

Enter the previously stored user code (e.g. **34741**) followed by star (*).
If the code has been stored in the memory, the keypad's green **LV** LED lights up.
Press and hold the enabled key/channel (e.g. **4/B - CH_B**).
Example:

34741 * **B**

If ONLY ONE of the channels **CH** is enabled (**1/A**...**4/B** ...**7/C**...***/D**), radio transmission is activated immediately after the user code is entered followed by pressing the * (asterisk) key:
EXAMPLE with user code **89512** and channel **CH_A** enabled.

89512 * *(CH_A transmit)*

N.B.: transmission continues as long as the asterisk key (*) is held; the **H85/TDR** keypad switches off as soon as the key is released.

WARNING!
- A maximum of 5 s may elapse between pressing one key and the next, otherwise an error alert is activated (the red **LR** LED blinks rapidly 3 times) and the code must be entered again.
- Pressing a key/channel that has not been enabled (**1/A**, **4/B** etc.) does not activate radio transmission.
- In case of error while entering the code, press **#** to exit activation mode.

10 Deleting a user code (fig. 12)

Identify the user code (e.g. **34741**) to be deleted, and enter in sequence:

34741 *

If the code is present in the memory, the red **LR** LED blinks and then remains steady-on.
Confirm within 5 s, by entering

34741 *

If the two codes have been entered correctly (the same), the procedure is successful and the green **LV** LED lights up for 2 s. The buzzer sounds until the LED goes out.
Using again our example with user coder to delete **34741**:

34741 * **34741** *

11 Changing password (fig. 8)

For the security of the installation, it is recommended to change the password from the factory default value 0000.
The "change password" operation also selects the type of encoding of the radio transmission: fixed code or "rolling code".
Therefore, if you only wish to change the type of encoding without changing the password, you must carry out the sequence described, taking care to keep the password.
The factory default password is **0000**.

Change password from 0000 to 12345, tx radio fixed code, enter in sequence:

* * **0000** * *(the red **LR** LED lights up)* **12345** * **12345** *

Change password from 0000 to 12345, tx radio rolling code, enter in sequence:

* * **0000** # *(the red **LR** LED lights up)* **12345** # **12345** #

If the procedure is successful, the green **LV** LED lights up and the buzzer sounds for 2 s.
If the procedure is NOT successful, the red **LR** LED blinks rapidly 5 times and the buzzer sounds intermittently.

11.1 Reset password to factory setting (fig. 9)

If the password is lost/forgotten, it can be reset to the factory default value (**0000**) by knowing any of the user codes stored in the H85/TDR.

To reset the password, if for example the user code **12345**, is known, enter in sequence:

Procedure for fixed code radio transmission:

*** * 12345 *** *(the red **LR** LED lights up)* **0000 * 0000 ***

Procedure for rolling code radio transmission:

*** * 12345 #** *(the red **LR** LED lights up)* **0000 # 0000 #**

If the procedure is successful, the green **LV** LED on the keypad lights up for 2 s. The buzzer sounds until the LED goes out.
If the procedure is NOT successful, the red **LR** LED on the keypad blinks rapidly 5 times and the buzzer sounds intermittently.

12 Complete memory erasure (fig. 13)

All user codes can be deleted from the memory, of the **H85/TDR** wireless code keypad, digiting in sequence, using the last password entered (example last password entered **12345**):

 # # * 12345 # # *

If the password is correct, the green **LV** and red **LR** LEDs on the keypad blink slowly for 2 s, while the buzzer sounds simultaneously.

13 Advanced function: Code masking

WARNING! This feature is available for 6-digit user codes, to improve security when entering the code.
The mask function allows the real code to be "hidden" among digits entered at random.
The code will be read from the 6 digits entered immediately before the (*****) star key.
E.g. user code **245672**, channel enabled **CH_B.**

294862...308236 **245672 *** 057986…791964 *** B**

N.B: by simply entering **245672 * * B**, code masking can be bypassed.

14 Indicators

ERROR ALERT H85/TDR KEYPAD	**POSSIBLE CAUSE**
LR LED blinks rapidly 5 times Intermittent buzzer	Incorrect password
	User coder not in memory
	User code or password entered with fewer than 3 digits or more than 6
	In code delete mode or change password mode: the codes entered do not match the confirmation codes.
	User code already stored.
	Failure to enter * after the user code.
	Digit entered incorrectly: # instead of *.
Alternately blinking **LV** and **LR** LEDs	User code entered incorrectly 5 times in a row. Keypad locks for 20 s.
	Batteries flat. The keypad is disabled until the batteries are replaced.
LEDs **LR** and **LV** light simultaneously while using the keys.	Batteries low. Replace the batteries as soon as possible.

☎If the error alerts persist, contact Technical Service.

15 Cancelling a channel key from the receiver

Cancel a channel key of the **H85/TDR** keypad from the radio receiver as follows:
- Press and hold button **P1** or **P2** for the channel where the channel key you want to cancel is stored, for 4 seconds.
- The relative LED **L1** or **L2** lights and then starts to flash rapidly.
- Release button **P1** or **P2**, the LED **L1** or **L2** continues to flash rapidly.
- During this period, enter the user coder stored previously (e.g. **34741**) then press the asterisk key **(*)** and the key/channel of the **H85/TDR** keypad you want to cancel (e.g. **1/A CH_A**).
- The LED **L1** or **L2** lights for 1 s.
- Repeat the procedure to cancel any other keys/channels from the radio receiver.

16 Replacing the batteries (fig. 6)

WARNING! Always use batteries of the same brand. Always replace both batteries at the same time. Do not use an old battery with a new battery.

To replace the batteries:
- Remove the side panels, then undo and remove the screws. Pull off the numerical keypad (fig. 6).
- Disconnect the battery connector (fig. 6 detail **A**) from the electronic circuit board of the wireless keypad.
- Undo the screw fastening the battery holder (detail **B**). Open the battery holder and replace the batteries, ensuring that they are fitted with the correct polarity as indicated (detail **C**).
- Do not use metal tools (such as tweezers), as this may cause short-circuiting.
- Close the battery holder and fasten to the keypad base with the screw (detail **B**).
- Connect the connector to the electronic circuit board (det. **A**).
- Refit the numerical keypad, fasten with the screws and refit the lateral panels correctly.

17 Initial testing

- Power on.
- Press the channel keys **1/A**, **4/B**, **7/C** and ***/D** programmed in the memory of the receiver to check that the receiver outputs function correctly.
- The green LED **LV** should light briefly and the buzzer should sound when a user code is entered.
- If fixed mode is selected, check that the red LED **LR** flashes during transmission. If rolling mode is selected, check that the green LED **LV** flashes during transmission.

18 Maintenance

Perform scheduled maintenance every 6 months.
Check cleanliness and correct functioning.
If any dirt, moisture, insects or other foreign matter is present in the unit, disconnect from mains power and clean the board and the housing.
Repeat the initial installation test procedure after cleaning (chapter 16).
If any corrosion is found on the printed circuit board, evaluate if it is necessary to replace the board itself.

19 Disposal

This product may only be uninstalled by qualified technical personnel, following suitable procedures for removing the product correctly and safely. This product consists of numerous different materials. Some of these materials may be recycled, while others must be disposed of correctly at the specific recycling or waste management facilities indicated by local legislation applicable for this category of product.
Do not dispose of this product as domestic refuse. Observe local legislation for differentiated refuse collection, or hand the product over to the vendor when purchasing an equivalent new product.
Local legislation may stipulate severe fines for the incorrect disposal of this product. **Warning!** some parts of this product may contain substances that are harmful to the environment or dangerous and that may damage the environment or pose a risk to health if disposed of incorrectly.

20 Additional information and contact details

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21 UE Declaration of Conformity (DoC)

I the undersigned, as acting legal representative of the manufacturer
Roger Technology, Via Botticelli 8
31020 Bonisiolo di Mogliano V.to (TV)

Hereby DECLARE that the appliance described hereafter:
Description: Wireless keypad for remote control.
Model: **H85/TDR**
Is conformant with the legal requisites of the following directives:
– RED directive 2014/53/UE
– RoHS directive 2011/65/UE
and that all the standards and/or technical requirements indicated as follows have been applied:
ETSI EN 300 220-2 V3.1.1
ETSI EN 300 220-1 V3.1.1
ETSI EN 301 489-1 V1.9.2
ETSI EN 301 489-3 V2.1.1
EN 62479:2010
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011

Last two figures of year in which marking was applied CE 17.

Place: Mogliano V.to

Date: 10-05-2017 Signature

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