



**SELF-LEARNING
ROLLING-CODE
EXTERNAL RECEIVER**



1) GENERAL OUTLINE

Thank you for buying this product, our company is sure that you will be more than satisfied with the performance of the product. Read the "Instruction Manual" supplied with this product carefully, as it provides important information about safety, installation, operation and maintenance. This product conforms to recognised technical standards and safety regulations. It complies with the 89/336/EEC, 1999/5/CEE, European Directive and subsequent amendments. This product complies with recognised technical standards and safety regulations. Self-learning rolling-code radio receiver system. This is used to configure impulse or bistable or timed outputs. It can also memorize **TEO 1-2-4** series (non rolling-code) transmitters. The **INTRIC 1-2 / E** system is compatible with the **EELink** protocol for fast installation and maintenance.

2) GENERAL SAFETY

WARNING! An incorrect installation or improper use of the product can cause damage to persons, animals or things.

- The "Warnings" leaflet and "Instruction booklet" supplied with this product should be read carefully as they provide important information about safety, installation, use and maintenance.
- Scrap packing materials (plastic, cardboard, polystyrene etc) according to the provisions set out by current standards. Keep nylon or polystyrene bags out of children's reach.
- Keep the instructions together with the technical brochure for future reference.
- This product was exclusively designed and manufactured for the use specified in the present documentation. Any other use not specified in this documentation could damage the product and be dangerous.
- The Company declines all responsibility for any consequences resulting from improper use of the product, or use which is different from that expected and specified in the present documentation.
- Do not install the product in explosive atmosphere.
- The construction components of this product must comply with the following European Directives: 89/336/EEC, 1999/5/CEE, European Directive and subsequent amendments. As for all non-EEC countries, the above-mentioned standards as well as the current national standards should be respected in order to achieve a good safety level.
- The Company declines all responsibility for any consequences resulting from failure to observe Good Technical Practice when constructing closing structures (door, gates etc.), as well as from any deformation which might occur during use.
- The installation must comply with the provisions set out by the following European Directives: 89/336/EEC, 1999/5/CEE, European Directive and subsequent amendments.
- Disconnect the electrical power supply before carrying out any work on the installation. Also disconnect any buffer batteries, if fitted.
- Fit an omnipolar or magnetothermal switch on the mains power supply, having a contact opening distance equal to or greater than 3mm.
- Check that a differential switch with a 0.03A threshold is fitted just before the power supply mains.
- Check that earthing is carried out correctly: connect all metal parts for closure (doors, gates etc.) and all system components provided with an earth terminal.
- Fit all the safety devices (photocells, electric edges etc.) which are needed to protect the area from any danger caused by squashing, conveying and shearing.
- Position at least one luminous signal indication device (blinker) where it can be easily seen, and fix a Warning sign to the structure.
- The Company declines all responsibility with respect to the automation safety and correct operation when other manufacturers' components are used.
- Only use original parts for any maintenance or repair operation.
- Do not modify the automation components, unless explicitly authorised by the company.
- Instruct the product user about the control systems provided and the manual opening operation in case of emergency.
- Do not allow persons or children to remain in the automation operation area.
- Keep radio control or other control devices out of children's reach, in order to avoid unintentional automation activation.
- The user must avoid any attempt to carry out work or repair on the automation system, and always request the assistance of qualified personnel.
- Anything which is not expressly provided for in the present instructions, is not allowed.

3) TECHNICAL SPECIFICATIONS

Frequency: 433.92MHz
 Operating temperature: -20 / +55°C
 Coded by means of: Rolling-code Algorithm
 No. combinations: 4 million
 Dimensions: see fig.1

3.1) Receiver

Power supply: from 12 to 28Vdc, from 16 to 28Vac
 Antenna impedance: 50Ohm (RG58)
 Relay contact: 1A - 33Vac, 1A 24Vdc
 Max No. radio control to be memorised: 128

Receiver versions	N° radio control
Intric E	128
Intric E 512	512
Intric E 2048	2048

Receiver versions:
INTRIC 1 E -single-channel, **INTRIC 2 E** - double-channel.

4) ANTENNA INSTALLATION

Use an antenna tuned to 433MHz. For Antenna-Receiver connection, use an RG58 coaxial cable. The presence of metallic masses close by the antenna can interfere with radio reception. In case of poor transmitting range, move the antenna to a more suitable site.

5) PROGRAMMING

The receivers are provided with a "JP5" jumper (fig.2) which is used to enable the transmitters to be memorized, in **MANUAL** or **SELF-LEARNING** mode by radio. Having inserted the receiver in the connector provided with the control unit, enter the programming mode by pressing the SW1 button for INTRIC 1E or, in case of INTRIC 2 E, the SW1 button for the CH1 output and SW2 button for CH2 output. This condition is signalled by constant blinking of the DL1 LED. The DL1 LED blinker packs (fig.2), which range from 1 to 6 blinks interrupted by a pause of about 1 second, indicate the different learning functions (see table). The receiver comes out of the programming mode if no operations take place during the subsequent 90 seconds.

5.1) Transmitter memory storage in manual mode (JP5 closed)

Select the required function from the table. When the operating method has been understood, proceed as follows:

- Preset the receiver to the required function (see table) and check the DL1 LED blinker packs.
- Send the transmitter secret code. In the case of TRC1-2, press the P1 hidden button (fig.2). In the case of TRC4, the P1 button function corresponds to pressing the 4 transmitter buttons simultaneously or, after opening the battery compartment, bridging the two P1 points with a screwdriver (fig.2).

Note: For the **TEO 1-2-4** series, enter the personal code with the 10-way Dip-switch provided with the transmitter and press the T key of the transmitter which is to be memorised

- Press the T key of the transmitter which is to be memorised. The key of that transmitter is now stored.
- To memorise other transmitters, repeat the sequence from point (b) within a maximum time of about 10 seconds, otherwise the receiver will come out of the programming mode.

5.2) Transmitter memory storage in self-learning mode by radio (JP5 open)

The transmitter TEO 1-2-4 (non rolling-code) must be memorized in manual mode.

The first transmitter must be memorized in manual mode (see paragraph 5.1). **Note:** with JP5 open, you can also carry out memory storage in manual mode. Leaving the JP5 bridge open, and having a TRC transmitter already memorized in the receiver, you can also memorize other transmitters by radio, as explained below:

- Send the secret code of the transmitter already memorised. In the case of TRC1-2 transmitters, press the hidden P1 button (fig.2). In the case of TRC4, the P1 button function corresponds to pressing the 4 transmitter buttons simultaneously or, after opening the battery compartment, bridging the two P1 points with a screwdriver (fig.2).
- Press the T key which is also to be assigned to the new transmitter.

- c) Transmit the secret code of the new transmitter to be memorized (P1 key for TRC 1-2) (all the T1-2-3-4 keys for TRC4).
- d) Press the T key which is to be assigned to the new transmitter.
- e) To memorise another transmitter, repeat the sequence from step (c) within a maximum time of 10-15 seconds, otherwise the receiver will come out of the programming mode.
- f) To copy another key, repeat the sequence from step (a) and wait for the receiver to come out of the programming mode (or disconnect the receiver from the power supply).

Note: Maximum protection from memory storage of foreign codes is obtained by presetting the JP5 jumper closed and programming in manual mode or by means of the UNIPRO mod. programmer.

5.3) UNIPRO mod. Universal programmer (Fig.4)

To use the programmer, see the respective instructions. **Transmitter** - Connect the **UNIPRO** programmer to the **TRC** transmitter by means of the **UNITRC** and **UNIFLAT** accessories supplied. **Receiver** - Connect the **UNIPRO** programmer to the **INTRIC** receiver by means of the **UNIDA** and **UNIFLAT** accessories supplied. The system will not support the power input of the **UNIPRO** programmer.

6) MAINTENANCE

The maintenance of the system should only be carried out by qualified personnel regularly.

7) DISPOSAL

ATTENTION: disposal should only be carried out by qualified personnel. Materials must be disposed of in conformity with the current regulations. In case of disposal, the system components do not entail any particular risks or danger. In case of recovered materials, these should be sorted out by type (electrical components, copper, aluminium, plastic etc.).

The descriptions and illustrations contained in the present manual are not binding. The Company reserves the right to make any alterations deemed appropriate for the technical, manufacturing and commercial improvement of the product, while leaving its essential features unchanged, at any time and without undertaking to update the present publication.

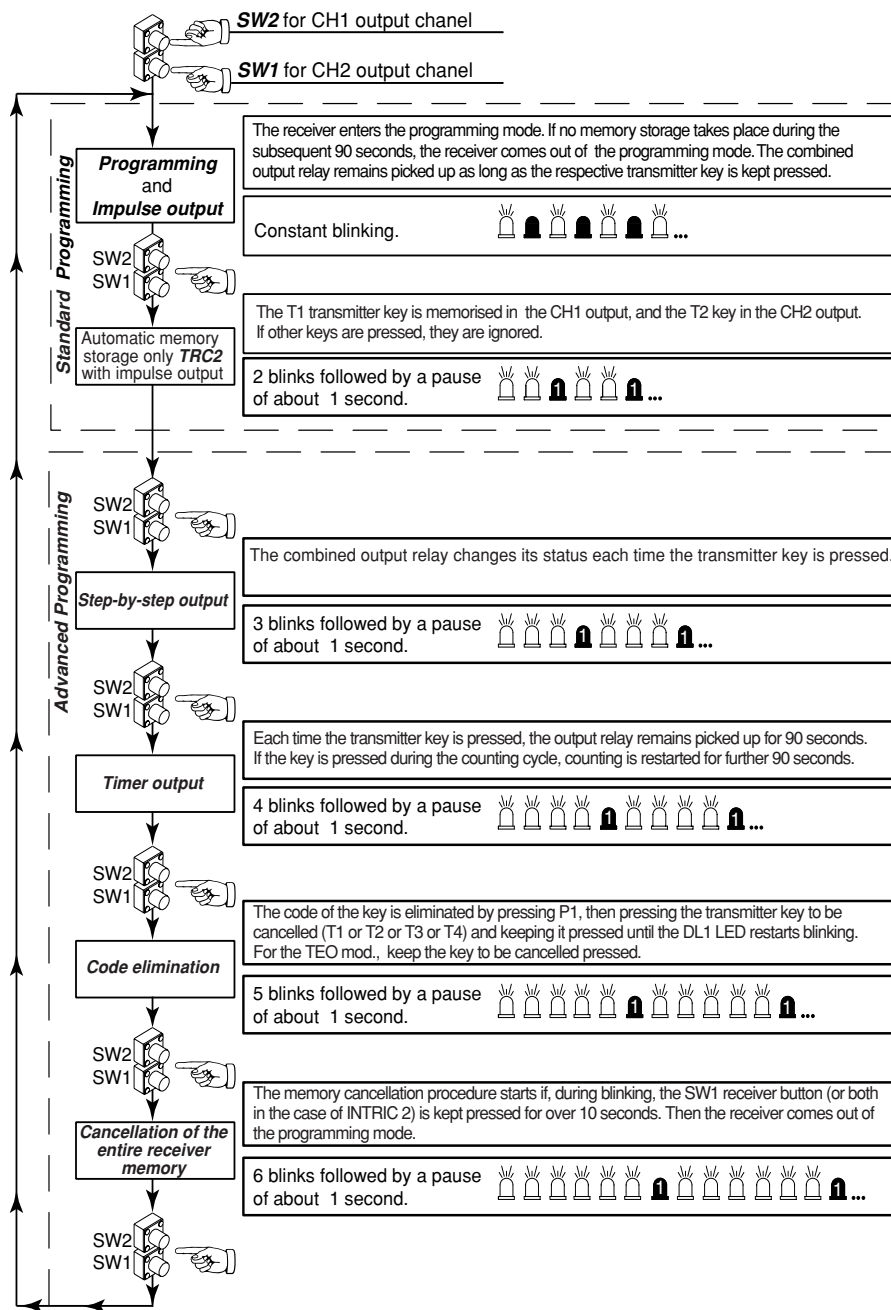


Fig. 1

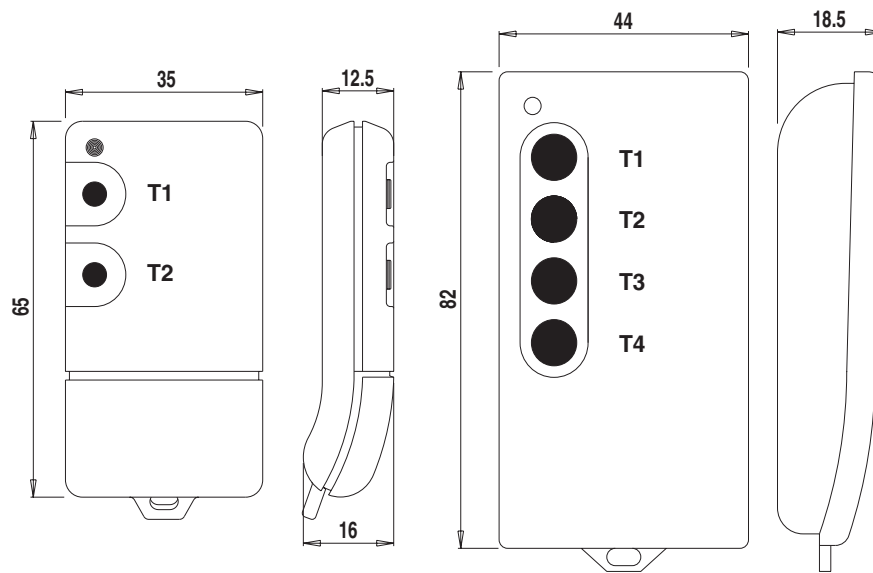


Fig. 2

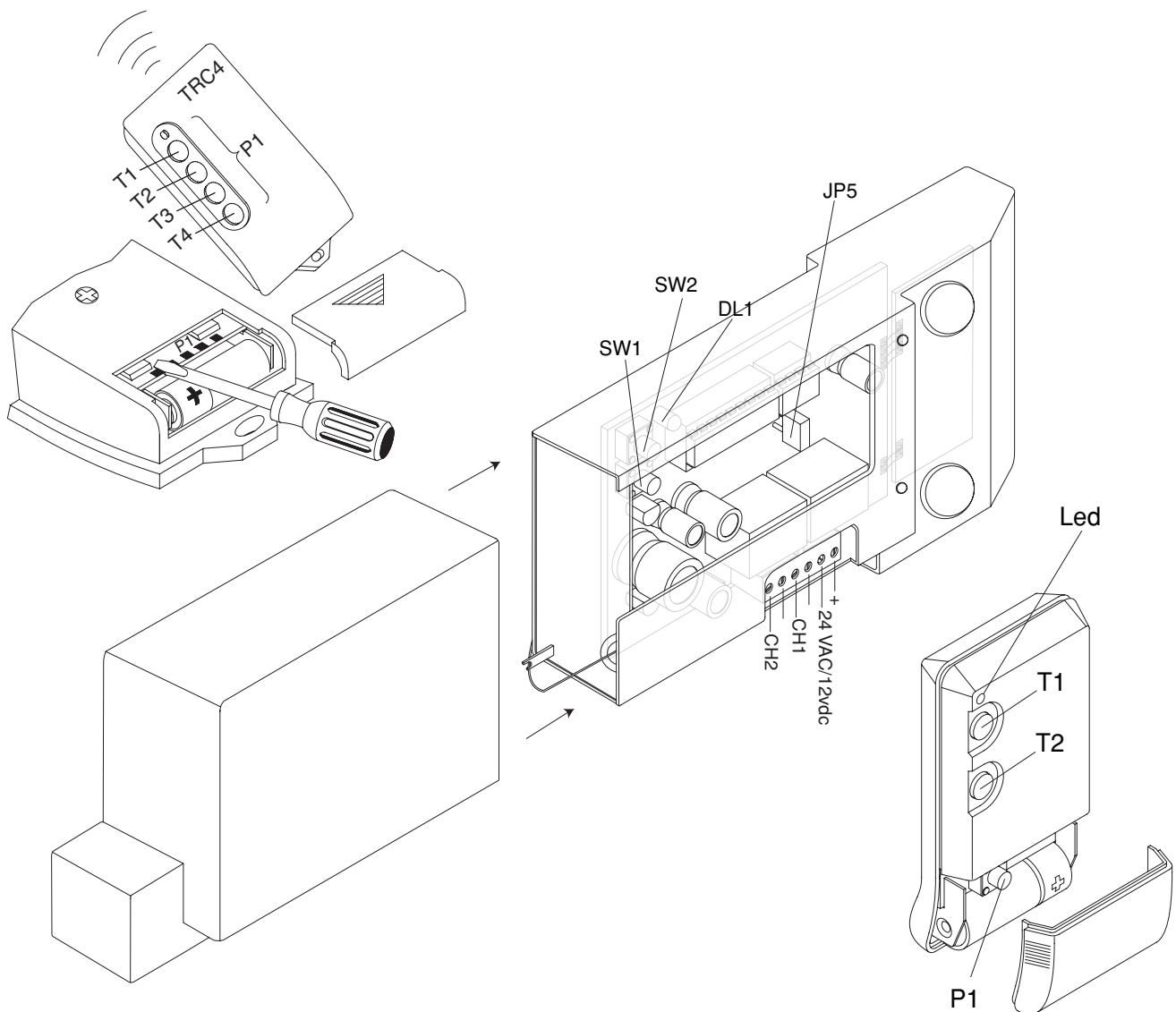


Diagram illustrating the correct and incorrect placement of the battery. The left side shows the battery correctly inserted into the TE02 device, with terminals T1 and T2 labeled. The right side shows the battery incorrectly inserted into the TE04 device, with terminals T1, T2, T3, and T4 labeled. A pencil points to the correct orientation of the battery.

Diagram illustrating the components and assembly of the UNIPRO terminal, showing the connection of various modules and contacts.

Key components labeled include:

- INTRIC 1-2
- JP2
- UNIFLAT
- UNIDA
- UNITRC
- TRC1-2
- TRC4
- UNIPRO

Labels for contacts are provided in multiple languages:

- Contatti
- Contacts
- Kontakte
- Contactos
- Contatos