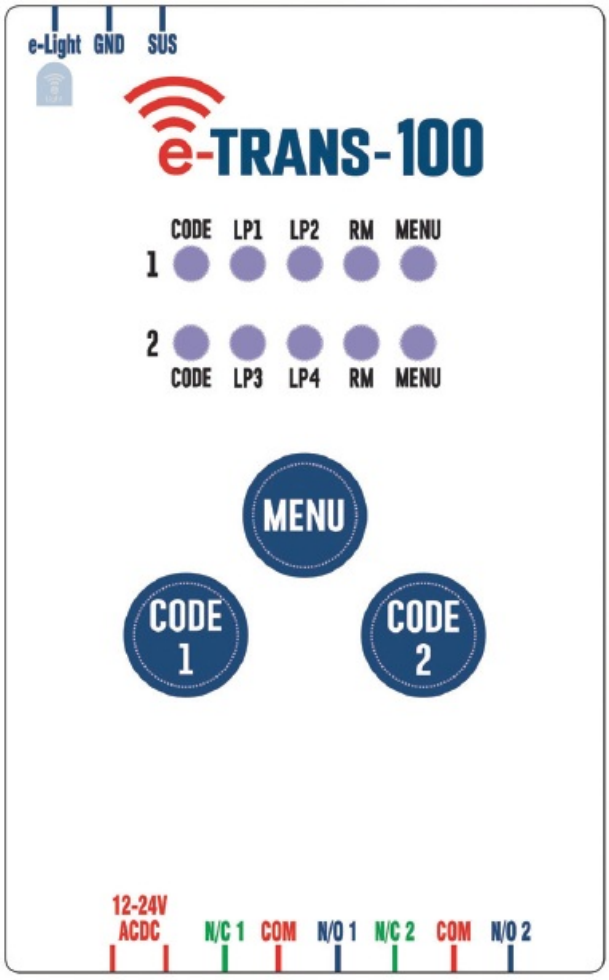
microtech DESIGNS E-Trans100 Two Channel Transceiver Instructions

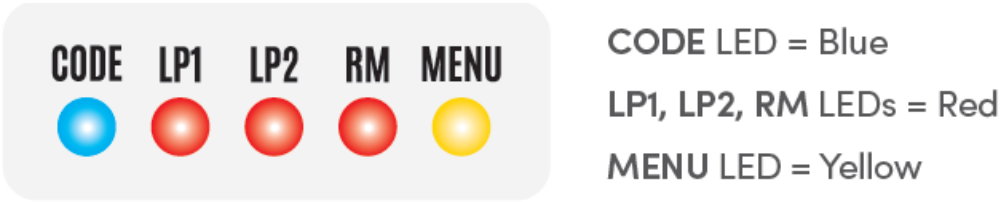
Contents

microtech DESIGNS E-Trans100 Two Channel Transceiver

Specifications

- **Voltage:** 10-28AC-DC
- **Current draw standby:** 12 m/a
- **Current draw active:** 20 m/a
- **Frequency:** 433.39MHz
- **Bandwidth:** 250Hz
- **Relay:** 1-amp contact rating, N/C, COM, N/O connections x2
- **Transmitting:** <10mW





Coding device

- CH1 Code LP1 LP2 Rem Menu = Relay 1
- CH2 Code LP3 LP4 Rem Menu = Relay 2

Coding an e-Loop (option 1)

1. To code the device, hold the e-Loop close to the antenna of the e-Trans 100.
2. Now press and release the Code channel button you want the e-Loop coded to. You should see the blue ‘Code’ LED flash and the red LED (LP1) or (LP2) will flash indicating e-Loop allocation.
   The e-Loop will also flash the yellow LED at the same time, then the red LED. Now change coding (e-Loop option 2) to;

Version 3 e-Loop coding

(Release date 15/10/2023 for all commercial e-Loops)

1. To code the device, press and release the Code channel button you want the e-Loop coded to. You should see

the blue ‘Code’ LED light up.

2. Now place the magnet on the e-Loop recess and you should see the yellow ‘Code’ LED on the e-Loop flash. The blue ‘Code’
   The LED will flash and the red LED (LP1) or (LP2) will flash indicating which space has been filled. The e-Loop will also flash the yellow LED at the same time, then the red LED.

To code e-Loop long range

- Place a magnet on the CODE recess on the e-loop until the yellow LED comes on solid, remove the magnet, and now go to the e-Trans 100, you have a 60-second window.
- Now press and release the Code channel button you want the e-Loop coded to. The blue ‘Code’ LED will flash and the red LED (LP1) or (LP2) will flash indicating which space has been filled. The e-Loop will also flash the yellow LED at the same time, then the red LED.

Coding a remote or keypad

1. To code the remote, press and release the Code channel button you want the remote to code to. You should see the blue ‘Code’ LED light up.
2. Now press the number button on the remote you want the e-Trans 100 to operate from and the ‘Code’ LED will flash as well as the Rem ‘RM’ LED. The remote is now coded.
3. You can follow on with a second remote or press the same remote again to exit code learn. Code learn will automatically kick out after 5 seconds of inaction.

NOTE: If you code an e-Remote Lock button into either channel, it will latch the relay when the Lock button is pressed and unlatch the relay when the Unlock button is pressed. You will also see the Lock and Unlock LED flash on the e-Remote.

Deleting all coded devices

1. First select which channel you want to delete.
2. To delete all devices, press and hold the Code channel button you wish to delete. After 10 seconds you should see all channel 1 LEDs flash twice for channel 1, or all channel 2 LEDs flash twice for channel 2.

To delete individual e-Loops or all remotes

1. Press and hold the Code channel button, now press and release the Menu button, and the ‘LP1’ LED will light up. If this is not correct, then press the Menu button again until you are on the correct LED.
2. Once the correct selection has been made, keep your finger on the Code button until all LEDs on channel 1 flash.

e-Trans 100 MENU 5 options
Menu
The system menu can be entered by holding the menu button for 2 seconds. On menu entry, the system will beep and display the first setting with the selected relays menu LED turned on. All menu items can be navigated the same way. Code button 1 can be used to select and then change the current setting for relay 1, and code button 2 can do the same for relay 2. The menu button can navigate to the next menu item, and if the user doesn’t interact with the system for 10 seconds, the system will beep twice and flash all the LEDs twice then the menu will exit.

Menu Option 1

- To enter the menu press and hold the Menu button until the Yellow Menu LED and the Blue code LED come on indicating lost communication – fail secure (CH1 is default to change to CH2 press the Code 2 button).

- Fail secure will beep the buzzer and flash LED and the e-Light output continuously when no communication with loop has been detected within 12 hours.
- To change to fail-safe mode press and release the corresponding CH button, the yellow menu LED will stay solid, and the blue code LED will continually flash.

- Fail secure will beep buzzer and flash LED and e-Light continuously when no communication with loop has been detected within 12 hours as well as latch the relay on preventing the gate from closing.

Note: to clear fault press the corresponding Code button.

Press the Menu button to move to Option 2

- Low Battery Detection
- Menu LED Red LP1 LED both on solid (LP3 -CH2)
- Low Battery Fail secure (Default) flashes the corresponding LED example LP1 it also flashes the E-Light output 5 times and beeps 5 times when low battery is detected.
- To change to fail-safe press the corresponding code button to change to fail-safe, the Red LP1 LED will start flashing indicating fail-safe mode.

Menu LED on solid and Red LP1 LED will continuously flash (LP3 -CH2)

- Low Battery Fail safe flashes the corresponding LED example LP1 it also flashes the e-Light output 5 times and beeps 5 times then latches the corresponding relay when low battery is detected preventing the gate from closing.

Note: to clear fault press the corresponding Code button.

Press the Menu button to move

Press the Menu button to move to Option 3

- Remote lock enable
- e-Remote lock button and unlock button.
- The yellow Menu button will come on and the Red LP2 LED will come on (LP4 -CH2).

- The remote lock enables the relay to be locked by a remote.
- e-Tx Lock Buttons 1+ 2 unlock 3 + 4.
- e-Remote lock button and unlock button.
- The yellow Menu button will come on and the Red LP2 LED will come on (LP4 -CH2).

- This is the default remote lock disabled.
- To change to remote lock enabled press the corresponding Code button.
- Now the Menu Led will be on and the
- Red LP2 LED will start flashing (LP4 -CH2).

Press the Menu button to move to Option 4

- Sequence mode by turning this feature on 2 x exit mode loops can be used to open or close on the direction of vehicle travel.
- Loop 1 + Loop 2 on CH1 will trigger relay 1 Loop 3 + Loop 4 will trigger relay 2 vehicles travelling in opposite directions will not trigger the relay.
- The menu LED and Rem LED will come on solid which indicates sequence mode off.

- Press the corresponding Code Button to change to sequence mode on.
- The menu LED will be on and the Rem LED will start flashing.

Press the Menu button to move to Option 5

- Changing relay function (Note: this only alters operation for remotes not e-loops).
- The Menu and LP1 LED will come on for CH1 this is pulse mode.

- To change to hold mode press the corresponding code button in the menu, LP1 and LP2 LEDs will come on.
- To change to latch mode, press the corresponding code button the menu, LP1, LP2, and Rem LEDs will come on.

  - Loop 1 LED only = pulse mode
  - Loop 1, Loop 2 LEDs = hold mode
  - Loop1. Loop 2, and Remote LEDs = latch mode
- When the last setting is cycled past, the system beeps once and exits the menu.

Suspend inputs

- By bridging the SUS and GND inputs both relays will become inactive.

e-Light

- The e-Light wires into the e-Light output and displays faults like low battery lost communication and relay activating.

Note: Do not wire any other light into this input as the current is limited to 50mA, if a brighter external light is required then use the e-Light relay module which will need to be powered from a higher power source than the accessories inputs.

Disposal

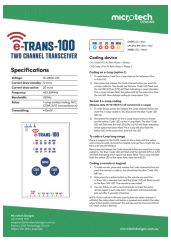
The packaging must be disposed of in the local recyclable containers. According to the European Directive 2002/96/EC on waste electrical equipment, this device must be properly disposed of, after usage in order to ensure a recycling of the materials used. Old accumulators and batteries may not be disposed of in the household waste, since they contain pollutants and must be properly disposed of in municipal collection points or in the containers of the dealer provided. Country-specific regulations must be observed.

CONTACT

Microtech Designs

- +61 3 8795 7571
- enquiries@microtechdesigns.com.au
- Factory 3/45 Technology Circuit
- Hallam VIC 3803, Australia
- microtechdesigns.com.au

Documents / Resources

	microtech DESIGNS E-Trans100 Two Channel Transceiver [pdf] Instructions PROOF1-MD, e-Trans-100, E-Trans100 Two Channel Transceiver, E-Trans100, Two Channel Transceiver, Channel Transceiver, Transceiver

References

- User Manual