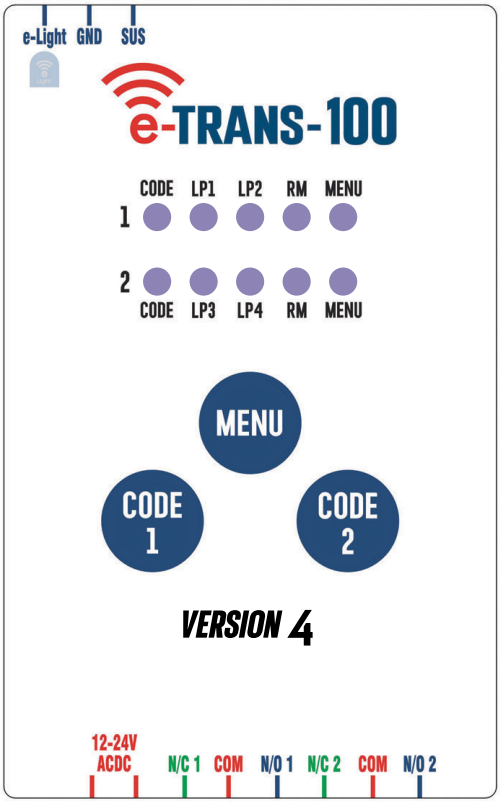
e-TRANS-100

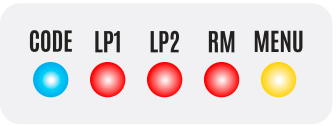
TWO CHANNEL TRANSCEIVER

VERSION 4

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





CODE LED = Blue

LP1, LP2, RM LEDs = Red

MENU LED = Yellow

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 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 4 e-Loop Coding

1. To code device, press & 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 & you should see the yellow 'Code' LED on the e-Loop flash. The blue 'Code' LED will flash & 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 Yellow LED comes on solid, remove the magnet, now go to the e-Trans 100, you have 60 second window.
Now Press & Release the CODE Channel button you want the e-Loop coded to. The Blue 'Code' LED will flash & the Red LED (LP1) or (LP2) will flash indicating which space has been filled. The e-Loop will also flash the Yellow LED, then the Red LED.

Coding a Remote or Keypad

1. To code remote, Press & 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 & 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-TX Remote Lock Button into either channel, it will latch the relay when Lock button is pressed & unlatch the relay when Unlock button is pressed. You will also see the Lock & Unlock LED flash on the e-TX remote.

Deleting all Coded Devices

1. First select which channel you want to delete.
2. To delete all devices, Press & Hold the CODE channel button you wish to delete. After 10 seconds you should see all corresponding channel LEDs flash twice.

Deleting Individual e-Loops or All Remotes

1. Press & Hold the CODE Channel button, now Press & Release the MENU button & 'LP1' LED will light up. If this is not correct, press the MENU Button again until you reach 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 Options

The system menu can be entered by holding the MENU Button for 2 seconds. On menu entry, the system will beep & display the first setting with the selected relay's menu LED illuminated. All menu items can be navigated the same way. CODE Button 1 can be used to select & then change the current setting Relay 1, & 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 & flash all the LEDs twice then the menu will exit.

Menu Option 1

To enter menu Press & Hold the MENU Button until the Yellow Menu LED & 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 & flash LED & the e-Light output continuously when no communication with loop has been detected within 12 hours.

To change to Fail Safe Mode, Press & Release the corresponding CH Button, the Yellow Menu LED will stay solid & the Code LED Will continually flash.
Fail secure will beep buzzer & flash LED & 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 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 the e-Light output 5 times & 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 & 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 & 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 Menu Button to Move to Option 3

Remote Lock Enable:

- e-Remote lock button & unlock button.
- The Yellow MENU Button will come on & the Red
- LP2 LED will come on (LP4 - CH2)
- Remote Lock enables the relay to be locked by a remote.
- e-TX Lock Buttons 1 + 2 unlock 3 + 4
- e-TX Lock Buton & Unlock Button.
- The Yellow MENU Button will come on & the Red
- LP2 LED will come on (LP4 - CH2).
- This is default remote lock disabled
- To change to remote lock enabled press the corresponding CODE Button.
- Now the Menu LED will be on & the Red LP2 LED will start flashing (LP4 - CH2)

Press Menu Button to Move to Option 4

Sequence mode by turning this feature on 2 x Exit Mode loops can be used to oper or close on direction of vehicle travel.
Loop 1 + Loop 2 on CH1 will trigger the relay 1 Loop 3 + Loop 4 will trigger relay 2 vehicles traveling opposite direction will not trigger the relay.
The Menu LED & Rem LED will come on solid which indicates Sequence Mode is OFF.
Press the corresponding CODE Button to change to Sequence Mode ON.
The Menu LED will be on & the Rem LED will start flashing.

Press Menu Button to Move to Option 5

Changing relay function (NOTE: This only alters operation for remotes not e-Loops).
The Menu & LP1 LED will come on for CH1 this is Pulse Mode.
To change to Hold Mode press the corresponding CODE BUtton the menu, LP1 & LP2 LEDs will come on.
To change to Latch Mode, press the corresponding CODE Button the menu, LP1, LP2 & Rem LEDs will come on.

- Loop 1 LED only = Pulse Mode
- Loop 1, Loop 2 LEDs = Hold Mode
- Loop 1. Loop 2 & Remote LEDs = Latch Mode

When the last setting is cycled past, the system beeps once & exits the menu.

Suspend Inputs

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

e-Light

The e-Light wires into the e-Light output & displays faults like low battery lost communication & relay activating.
NOTE: Do not wire any other light into this input as 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.

Switching e-Trans 100 Operational Version

V4 to V3

To switch from Default Version 4 Operational mode to Version 3, Hold MENU + CODE 1 Buttons for 2 seconds, All LEDs will flash 3 times to indicate Version 3 Mode active.

V3 to V4

To switch from back to Version 4 Operational mode , Hold MENU + CODE 2 Buttons for 2 seconds, All LEDs will flash 4 times to indicate Version 4 Mode active.

Enabling & Disabling Buzzer Function

Version 4 e-Trans 100s now include a buzzer functionality, this is active by default. This can be enabled/disabled by pressing CODE 1 & CODE 2 for 2 seconds. Both RED LEDs will flash 3 times to indicate buzzer: OFF, Both YELLOW LEDs will flash 3 times to indicate buzzer: ON.

Disposal: The packaging must be disposed of in the local recyclable containers. According to European Directive 2002/96/EC on waste electrical equipment, this device must be properly disposed of, after usage in order to ensure a recyling 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.