

# UNIVERSAL TRANSMITTER - uTx



1. The uTx can be wired to a receiver and configured to be a **Repeater Station** for increased radio distance.
2. The Universal Transmitter (uTx) has four zone inputs that can be wired to any device, such as an Electric Fence, indoor passive, panic button, reed switch etc. This will allow these devices to communicate with any Roboguard receiver. The uTx can mimic either Roboguards **or** (not both) Remote Transmitter functions; these unique codes can be programmed into an HQ, Keypad or a Universal Receiver (Roboguard receiver/decoder panels).
3. The input zone sends an intruder signal as soon as the input state is changed (N/C to N/O or vice versa) and will stop sending the supervisory Auto Test signal if it remains in the altered state; thereby monitoring functionality of the devices wired to it. (Auto test signals apply to Roboguard Code only)

## INSTALLING A REPEATER

**Switch 1 - ON** (Default). In this mode the unit will function as a repeater station.

**Switch 2, 3, and 4** will implement the following delay time between receiving and transmitting a signal.

Delay	Switch 2	Switch 3	Switch 4
2.4 SEC	OFF	OFF	OFF
2.8 SEC	OFF	OFF	ON
2.8 SEC	OFF	ON	OFF
4 SEC	OFF	ON	ON
4.8 SEC	ON	OFF	OFF
5 SEC	ON	ON	OFF
6.5 SEC	ON	ON	ON

### **Repeater Wiring:**

Connect the Universal Transmitter to a 12V power supply. Connect the 12V, 0V, and RXD (data line) of the Universal transmitter to a Receiver.

## **INSTALLING A UNIVERSAL TRANSMITTER**

**Switch 1 - OFF** In this mode the unit will function as a Universal Transmitter.

**Switch 2 - ON** Formatting: Causes the unit to transmit a Code on input state change.

**Switch 2 - OFF** Normal operation.

**Switch 3 - OFF** Causes the unit to transmit Roboguard Code during formatting. Will be programmed into an intruder zone on the receiver.

**Switch 3 - ON** Causes the unit to transmit Remote Code during formatting. Will be programmed into a remote zone on the receiver.

**Switch 4 - ON then OFF** Transmitter learns the default input states (N/O or N/C)

### **uTx Wiring:**

Connect the uTx to 12V and ground. (+12V, -0V on the unit)

## **PROGRAMMING ROBOGUARD OR REMOTE CODES.**

The uTx can transmit either Roboguard or Remote code.

**Switch 2 ON** will make the uTx transmit a code when an input zone is triggered. Each input zone transmits an individual code so the uTx behaves like 4 separate Roboguards or Remotes.

**Switch 3 OFF** the code transmitted will be Roboguard

**Switch 3 ON** the code transmitted will be Remote

Each input Zone on the uTx can take a trigger from normally open or normally closed devices.

Connect these devices to the uTx via a zone and the common making sure they remain in their non triggered state.

Turn switch 2 on and select Roboguard or Remote with switch 3

Select an input zone on your receiver (this can be a Keypad, HQ or a uRx/L – one zone only) by following the instructions in the manual.

**Note:** Intruder zones on the receiver will only accept Roboguard Code and Remote zones on the receiver will only accept Remote Code.

Now Trigger the device connected to the uTx to allow it to send a signal to the receiver and register itself in the zone.

Continue with the next device.

Ensure all your devices are in their passive state and turn Switch 2 OFF.

Leave Switch 3 ON if you are transmitting Remote Code.

Turn Switch 4 ON and then OFF. This will register the default state for each device.

The LED will now flash to allow you to see what default settings have been selected for the inputs.

Zone:	1	2	3	4
1 flash	N/C	N/C	N/C	N/C
2 "	N/O	N/C	N/C	N/C
3 "	N/C	N/O	N/C	N/C
4 "	N/O	N/O	N/C	N/C
5 "	N/C	N/C	N/O	N/C
6 "	N/O	N/C	N/O	N/C
7 "	N/C	N/O	N/O	N/C
8 "	N/O	N/O	N/O	N/C
9 "	N/C	N/C	N/C	N/O
10 "	N/O	N/C	N/C	N/O
11 "	N/C	N/O	N/C	N/O
12 "	N/O	N/O	N/C	N/O
13 "	N/C	N/C	N/O	N/O
14 "	N/O	N/C	N/O	N/O
15 "	N/C	N/O	N/O	N/O
16 "	N/O	N/O	N/O	N/O

You can now trigger each device to check transmission to your receiver.

Finally, connect any unused input zones on the uTx to Common. This will stop the uTx from sending auto-test data from these zones.

## AUOTOTEST:

The uTx will supervise the devices connected when in Roboguard Mode, but not in Remote Mode.

If the device does not return to default state but remains in triggered state the uTx will fail Auto test on all receivers except the uRx.

Failed Auto test will trigger the Trouble LED on your receiver as well as configured output ports depending on your receiver configuration. (See your receiver user manual)

**NOTE:** You can protect the installation by entering the uTx into a zone on the receiver using the Tamper Switch on the board. Opening the case will trigger the zone tamper only.

## HOW TO DETERMINE THE ZONE INPUTS OF AN OLD SITE:

Disconnect the Zone input wires one at a time.

The N/C zones will transmit on disconnection (LED will burn solid for 1 sec) and with N/O zones, the LED will continue to flash as normal, as they are still N/O

