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Tx27v2 User Information

Tx27v2 is a hand-held wireless transmitter for controlling model railway points, signals, lighting, etc. It has 7 x 2-way toggle switches, each controlling a separate circuit. Although it is intended for use with the Micron MR005 or Deltang Rx105, it can operate with any receiver that supports DSM2.

Technology

- Tx27v2 uses the 2.4GHz band which requires no frequency channel control and is very resilient against interference. All radio frequency components are contained on the internal Tx2 module. There are no user adjustable parts on this module and it should not be modified.
- Tx27v2 is compatible with all DSM2 receivers; this includes all Micron and Deltang model rail receivers.
- Any number of receivers can be bound to your Tx27v2 but only one should normally be switched on at a time to operate them independently.
- Range is suitable for indoors and small outdoor sites; the outdoor free-air range is at least 50m. Range indoors is affected by building construction materials, furniture, people and receiver installation.
  Each toggle switch operates a separate R/C channel corresponding to the number against each switch.

Battery

Tx27v2# uses a PP3 9V battery, preferably Alkaline or NiMH / Lithium rechargeable. The maximum working voltage of the internal electronics module is 10V and there is a protection diode wired in series with the battery lead. This allows the battery voltage to be up to 10.7V. If the battery voltage is above this value, the internal regulator will shut down and the transmitter will not operate.

To replace the battery:

- Make sure that the power on/off button is off (up) before) adding or removing a battery.
- Remove the lid at the bottom rear of the case by sliding it downwards. When Tx27v2 is new this will require a bit of effort to slide it past the retaning 'click'. The image at the right shows the case rear with the battery lid removed.
- Remove the battery from the compartment and pull the battery clip off the terminals. Replace the clip on the new battery which will only fit one way round. TAKE CARE, if force is needed, the connector is probably the wrong way round.
- Replace the battery cover by sliding it up from the bottom making sure that the retaining tab goes under the case rear. The battery is held in place with a piece of foam attached to the cover and you will feel some resistance as the cover is pushed down onto the battery.

On / Off Push Button

Tx27v2 has an illuminated push-button latching on/off switch. The LED lights continuously when the transmitter is on and flashes when Tx27v2 is in bind mode (see below). It is best to switch the transmitter on before the receiver. If a receiver is switched on with Tx27v2 off, it is likely to enter bind mode with rapid flashing of the LED on the receiver board. If you did not intend to bind, switch the receiver off, then switch Tx27v2 on followed by the receiver.

Toggle Switches

The toggle switches control transmitter channels 1 to 7. The R/C channel value is high (2ms servo pulse width) when the toggle is up and low (1ms servo pulse width) when the toggle is down.

Bind Button

If a receiver has not previously been bound, it has to be 'paired' with the transmitter. Binding is only required once per receiver.

1. Put your receiver into Bind mode (see the receiver user instructions).

2. Press and hold the Bind push-button on the transmitter.
3. Switch the transmitter on by pushing the Power button and then release the Bind button.
4. Binding is complete when the receiver LED stops flashing.