

Product Description

Our Radio Dethermalising (RDT) system can be fitted to any class of free flight model.

For the first time buyer or someone who is unsure what they require it is suggested that they buy a stand alone starter kit. This will provide all the parts required to enable them to equip a small model for RDT.

No soldering or special skills are required.

For those who know what they require they can buy individual parts, although it may be cheaper to buy a starter kit.

Customers who require a larger servo, for instance use on a larger model should buy the 2x3 pin version as this allows them to directly plug on an larger servo.

Standard Futaba style plugs and sockets are used.

It will require the buyer to decide how to connect the dt line to the servo.
(It is recommended NOT to fix the DT line directly to the servo arm but through the normal mouse trap method to reduce the load on the servo. If too high a load is applied to the servo it may well work but drain the battery at a much higher rate.)

All clients are assigned a signal code for their units by us, this enables multiple units to operate at the same time.

Clients requiring multiple receivers for other models will be given the same code. Therefore only one Tx is required for each person.

The range of operation is in excess of 4km on the ground LINE OF SIGHT.

Two Output Modes

- Standard RC Servo Output with 90 deg movement. Direction is reversible
- Host Timer output. For use with a Dan's timer. Powered by a 3.7V lipo
- The Rx may be suitable for other makes and models of timer and voltages however due to the multitude of various combinations available we cannot specifically guarantee which of these may or may not work. It is therefore the responsibility of the customer to satisfy themselves as to the suitability of such applications

Specifications	Stand Alone Starter Kit Contents
Operating Frequency License Free Bands: 868MHz (EU) - 915MHz (USA, Canada, Australia) Please check your local regulations if in doubt.	- Transmitter - Receiver - Host Timer - Charger for Tx and Rx - Tx charger lead.

Receiver (Rx)

Rx Dimensions, excluding pins -
10x15x2.5mm

Weight (Host Timer version) -
0.9g

Will operate for a full days flying
on a fully charged battery.

Transmitter (Tx)

Dimensions, lanyard version -
76x43x17.5mm

Weight - 30g

Will operate for several hundred
times on a fully charged battery.

Voltage

Designed for powering from
single 3.7V LiPo battery (5V
Max)

Average Receiver Consumption
is less than 1mA

Instructions

All Receivers are functionally identical.

The pin outs are the only difference to allow for the various applications the modeler requires.
The 2x3 pins option are in parallel to the 1x3 pins. Thus pins are +v, gnd, signal.

To operate the system connect the LiPo to the three pins on the Rx.

Note the 1/2 length pin has no connection it is there only to prevent incorrect connection.

Reversing the LiPo plug will not cause harm but the unit WILL NOT OPERATE.

Once connected press and hold the small back button on the Tx.

The red button should light up.

This means the Rx and TX are communicating and the model is ready to launch.

Note this test will only work within a meter or so.

**PRESS THE TEST (BLACK BUTTON) BEFORE LAUNCHING THE MODEL. NO
RED LIGHT = NO DT**

If when pressing the black button the red button flashes it is a warning of low (3.6v) Rx
battery.

It is still safe to launch the model for that particular flight but charge the battery soon.

When the Rx battery is critically low (3.5v) the servo will arm then a second or so later return to the DT position to prevent accidentally launching the model.

To DT the model press and release the red button.

The Tx will bleep 3 times and transmit the command to the model.

The servo will rotate about 100 degrees

If the button is held down the Tx will continue to transmit continuously.

To rearm the servo press and hold the small black button, this will rearm the servo

The user can define the direction of the servo left or right and if the system is a host to be used with an electronic timer.

To select these options open the Tx case.

Inside you will see a knob marked 0-1-2-3.

In NORMAL use this MUST be set at 0.

To change servo direction move the slotted arrow in the center to the required number ie to make servo move right put arrow to number 2.

Then press and hold the black test button, after a few seconds the red button will flash.

NOW TURN THE DIAL BACK TO 0.

When the red button is now pressed the servo will turn right.

This process is used to select the other options but of course using a different number option as printed on the inside of the Tx.

Tx will operate for several hundred times on a fully charged battery. As yet Tx has no low voltage alarm but later versions will have this facility.

DO disconnect the battery at the end of a days flying.