Programmer - Instructions

Version 9.2

24hr Standby
082 444 7176

DO NOT DISCONNECT THE PROGRAMMER FOR 5 SECONDS AFTER PROGRAMMING IS COMPLETED!!

First connect the programming cable plug into the top of the programmer. Connect the programmer to the programming socket on the transmitter. Once powered up, the programmer will briefly display information about the transmitter it is connected to and then the main menu appears, at this time the programmer will beep twice indicating that it is ready to accept user input.

Power for the programmer is supplied through the programming interface. Continuous scrolling English text help will assist during programming.

NB : If the programmer shows "*PROGRAMMER DOES NOT MATCH TRANSMITTER*" the programmer will not programme the transmitter. Contact RDC Technical Department for further assistance.

Function Buttons

To select an item	"SELECT"
To exit from any sub-menu	"9"
To correct a wrongly entered digit	"B/S"
Navigate between menus	"up/down arrows"

Menu Functions Overview

- **General Options**
  - Input polarity
  - Alarm input delay
  - Self test timer
  - Battery reporting
  - Mains fail/restore delay
- **Advanced Options (pin protected)**
  - Set code
  - Set channel
- **Clone Functions**
  - Read transmitter configuration
  - Write transmitter configuration
- **Show Software Version**

General Functions

Input Polarity

The programmer is used to individually program any input to positive or negative trip.

NOTE: When programming any input to negative trip, a jumper must also be installed for the corresponding input.

Inputs that are programmed for **positive trip** will be **activated when voltage is applied**.

Inputs that are programmed for **negative trip** will be **activated when voltage is removed.**

See the sticker on the inside of transmitter lids for the input definitions of the various transmitter models.

Alarm Input Delay *(only available on TX790C range)*

This delay is useful when the alarm input terminal is connected to the alarm panel bell output and arm / disarm annunciation is used. This value effects the time taken by the alarm input to respond to a trigger signal. The default value is 1 which is a 0.5 second delay. By increasing this value, the delay taken by the alarm input also increases by 0.5 seconds per count value. The maximum value allowed is 15 which equates to 15 x 0.5 seconds giving a total of 7.5 seconds delay.

NOTE: The delay value does not affect any other input other than the alarm input.

Self Test Timer

The self test timer/auto test period may be set from 1 to 250 hours. It is recommended that the period be set to 72 hours to preserve network bandwidth. A value of 0 will disable the self test feature.

Battery Reporting *(only available on TX790C range)*

Enables or disables the transmitter reporting low battery and battery restore conditions.

Mains Fail/Restore Delay *(only available on TX790C range)*

The mains fail/restore period may be set from 15 to 255 minutes. Mains failure or restores within the selected time delay are not reported.

NOTE: The time delay is not exact as a deliberate random time of between 0 and 15 minutes is added to the selected delay interval to ensure that transmitters that are installed within an area that experiences an area wide mains fail, do not all report simultaneously.

Advanced Options

Advanced options allow you to change the code number of the transmitter, change the channel that the transmitter operates on and set the PIN for enabling the clone feature. These are sensitive options which are PIN protected for security reasons. PIN's are only supplied to customers who have authorised the use of these functions and who have signed the necessary indemnities. PINs can only be supplied or changed by RDC's technical department.

See overleaf for further details on changing frequency and antenna lengths.

Clone Function

This allows for speedy changes to batches of transmitters. The customer programmes one transmitter with all the input trip polarities and time delays (self-test) etc. The customer can then clone all this information to the rest of the transmitters, without having to re-programme them individually. The function requires a PIN which is available from RDC.

Viewing the Software Version

SHOW S/W VER - This will show the programmer and transmitter software versions.

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Changing Channel

When migrating to another channel, the antenna length will need to be adjusted according to the new frequency of the channel. Please cut the antenna if it is too long or replace with a longer antenna if it is too short.

Frequency (Mhz)	Whip Length (mm)	Frequency (Mhz)	Whip Length (mm)
137.900	507	138.325	507
139.400	500	141.750	500
142.450	488	143.525	480
146.500	461	148.500	460
149.500	457	149.850	457
151.200	457	152.625	457
153.500	429	155.600	452
156.350	430	156.525	425
157.500	423	158.425	418
159.600	416	160.500	417
160.800	417	161.450	415
162.450	411	163.775	408
164.600	405	164.700	406
165.650	402	166.500	398
167.925	394	168.550	391
169.525	387	171.075	385
171.525	385	172.450	384
173.800	383		

Compatibility

The following transmitter models are supported for the programmer:

TX6000, TX6600, TX6500, TX6900, TX650C, TX690C, TX690CID, TX-*lite*

Various older models which have been upgraded are also supported.

Tuning the TX6000 Version 1

The following tuning procedure must be followed when programming a TX6000 V 1.

- Apply 12 volt DC to the TX.
- Connect programmer and programme the new channel info.
- Make sure jumper J3 is soldered to L5 tuning can outer.
- Press engineers button and hold it down.
- Tune the slug of L5 to the top of the coil can.
- Turn L5 with a tuning tool until LED lights up brightly (note position).
- Continue turning L5 in the same direction until LED switches off (note position).
- Turn L5 back to the centre of the two positions where the LED was on.
- Release the button and check that the output power is steady on the watt meter.

Channel PIN		Code PIN	

Channel	Description	Frequency
Channel 1		MHz
Channel 2		MHz
Channel 3		MHz
Channel 4		MHz
Channel 5		MHz
Channel 6		MHz
Channel 7		MHz
Channel 8		MHz
Channel 9		MHz
Channel 10		MHz