

TU 1008 User Instructions

Quick start using Darca Plus to configure RX250AL and GenII transmitters

Refer to the 1000 Series Squirrel operating instructions supplied with the RX250AL for:

- Configuring transmitters and channels from the RX250AL button panel
- Alarms
- Communications options.

The stages outlined in this guide are designed to get your RX250AL and transmitters configured quickly:.

- You will need the logger and transmitters to hand. It is not possible to configure transmitters over-air.
- Connect the MP12U power supply to the RX250AL (the internal rechargeable batteries will require charging).
- You will need the LCTX3 lead. This is connected between a PC serial port and the transmitter to be configured.
- You will also need the LC68 lead. This is connected between a PC serial port (use another serial port if possible) and the receiver/logger (e.g. RX250AL).
- For PCs with USB access only an RS232/USB adaptor is required. Use only the NewLink USB Serial Converter supplied or purchase from Eltek. Note: Not all USB adaptors are compatible!
- Install the Darca Plus Ver 3.0 software on your PC. Installation details are in the Darca Booklet (TM1020) packed with CD. Launch the software.
- Check in **Settings > Communications** that you have the appropriate PC serial port allocated to the LC68 lead. If your PC has 2 serial ports then use one port for the LC68 lead and another port for the LCTX3 lead (you can set this port later in the **Squirrel Channel to Transmitter Channel Assignment** window). You may wish to use the **COM Port Search** utility to locate the port which has been allocated to the converter. Alternatively, you can use the **Device Manager** in Windows to list the COM ports available on your computer. Type **Device Manager** in the Windows 7 search box to open this, and look for **Ports**. USB to serial converters are listed as **Prolific USB-to-serial**.)

To set the required receiver/logger ("record") **Log Interval**:

- Click **Contact Wizard > Manual > Next > Directly > Next**. The **Squirrel Status** window will be displayed.

- Look for the **Squirrel Settings** icon:



- Click **Squirrel Settings > Intervals** and set **Log Interval** to the required interval. If an interval of 30 minutes is required, enter 00:30:00 (Note: the RX250AL only works in Interval Log Mode.)
- Leave **Sample Interval** at the default setting (30sec). This is the interval at which received values are checked for alarming.
- Click **OK** and then in the main window click **Disconnect**.

To associate transmitters with the logger:

- Click **Contact wizard > GenII Setup/Transmitter Setup > Next > Modify the Transmitter setup based on the current Squirrel setup(Normal) > Next**
- You should see **Squirrel Configuration** window ("Getting Block").
- In the **Squirrel Channel to Transmitter Channel Assignments window** click **Transmitter Setup**.
- Ensure the TX*¹ is connected to the LCTX3 and the appropriate COM port is selected. Click **OK/(Connect)**.
- You will now be in the **Squirrel Channel to Transmitter Channel Assignments** window. The top pane is about the transmitter and the bottom pane shows current logger channel assignments. You cannot edit here*², but you can reallocate TX channels to logger channels here. You can also check that the serial numbers match, view battery level and set the TX interval*³.
- Note that TX channels are marked A,B,C,D etc...dependant on the number of inputs for the connected TX.
- Use the drop down menu next to a channel to set the range. You must click on **Set Channel** to set this. (a confirmation ✓ will appear in the **Match** column).
- You can then **Meter** the channel. The TX channel will be automatically allocated to the first available logger channel. You can reallocate this if required.
- Do not attempt to set Alarms! (Other than for transmitters with the suffix AL)

*¹ To gain access to the TX configuration socket: (except for TMET transmitter)

- Remove the 2 x M3 screws retaining the bottom plastic cover.
- Withdraw the battery but do not disconnect.
- Note the orientation of the battery to ease reassembly.
- Inside the enclosure, find the 3.5mm stereo jack TX configuration socket.
- When reassembling, ensure the battery is installed correctly.

*² Channel details can be edited in various ways (given a name, alarm values, set to log/not log etc.) in **Contact Wizard > Channel Setup** only. Channel Setup can only be changed when logging is NOT logging.

*³ The preferred method is to click **Set Log Int & Preferred Tx Int**. This sets

TX interval = log Interval ÷ 6

for optimum system performance. You can force the TX Interval to a different ratio for special applications.

To create an EU (Engineering Units) range for a transmitter channel
(Note: the EU option is not available on all transmitter types)

- In the the **Squirrel Channel to Transmitter Channel Assignments**, click **EU Range ...** in the drop down menu, then **Edit EU Range**. This will open the **EU Range Selector**:
- Open the **Helper** and select the input range from the drop down list.
- Enter Values and Units as required and click **OK**.
- In the **EU Range Selector** window, set **DP Position** as required and click **OK**.
- Repeat with other TX channels.
- When completed, click **Next Transmitter** to set other TXs or **Close Transmitter Connections** to finish configuration. Always finish with **Close Transmitter Connections**.
- If all OK, click **Send to Squirrel** (see block transfer prompt and close), then **Disconnect**.

Points to remember

- The Darca Software can only communicate with the logger if the RX250AL is inactive. The display will be blank in this case - if it isn't, either wait for it to clear or press the **Function** button on the front panel to step to OUTPUT1 and the display should then immediately clear.
- You cannot make changes to the RX250AL if it's logging or memory is not cleared.