

Manual

for

Programming Software

T-UP7



TeCom-PRO

Table of Contents

| | Page |
|--|-------|
| General Hints About this Manual | 3 |
| Installation of the Software | 3 |
| Setup of the COM-Interface | 3 |
| Connection of the TeCom-PRO | 3 |
| Data Transfer from TeCom-PRO to the Computer | 3 |
| Data Transfer from the Computer to TeCom-PRO | 3 |
| Channel-Programming | 4 |
| Additional Functions | 4 - 5 |
| <i>Time out timer</i> | |
| <i>Squelch</i> | |
| <i>Voice Annunciation</i> | |
| VOX | |
| <i>Alert Tone</i> | |
| <i>Energy Saving Function</i> | |
| <i>Scrambler</i> | |
| <i>ANI (Automatic Number Identification)</i> | |
| High / Low Power Debug | 6 |
| Self-Programming-Mode | 6 |

General Hints About this Manual

This manual gives you a quick overview about the available functions and their parameter. More information about the various functions and their settings on the handheld transceiver can be found in the manual of the TeCom-PRO.

After the successful installation of the program, open the software and familiarize yourself with the menus **File**, **Program**, **Port**, **View** and **Help** and the sub menus.

In the following, you will find a brief instruction for the installation of the program, the setup of the connection between the TeCom-PRO and the computer, the data transfer and the programming of the functions.

Installation of the Software T-UP7

System Requirements:

- > IBM- or IBM-compatible Computer with Microsoft Windows Operating System (Windows 98 – Windows XP)
- > Serial COM-Interface (9-Pin), if not available use TEAM USB-Adapter (Item No. PR2121).
- > CD-ROM Drive

Place the CD-ROM into the drive, open the CD and start the installation of the software T-UP7 by double-clicking onto the file T-UP7. The program will install itself and after completion a yellow icon with the TEAM logo will be placed onto the desktop.

Connection of the Programming Cable to the Computer

Connect the 9-pin connector of the programming cable with an available COM interface of the computer. If your computer contains no serial connection use the TEAM USB adapter (item no. PR2121).

Setup of the COM interface

For configuration of the COM interface, open the menu **Port**. The lists display four possible COM interfaces. By default COM interface #1 is selected. Select the COM interface that the programming cable is connected to. More information about the numbering of the COM interfaces of your computer can you find in your computer manual.

Connection of the TeCom-PRO to the Computer

To connect the programming cable with the TeCom-PRO, remove the cover of the connection jack on the left side of the handheld transceiver and insert the connector.

Data Transfer from TeCom-PRO to the Computer

Before launching the data transfer, turn the radio on.

There are two ways to start the data transfer. Either you select the option **Read from Radio** in the menu **Program**, or you click on the computer icon with the blue, away-pointing arrow that can be found below the main menu.

The window **Read from Radio** will open. Start the data transfer by clicking onto **Read**. The progress will be indicated by a blue bar. After completion of the data transfer, the window will close automatically.

All imported data will be visible in the main window. Save these original default settings onto the hard drive of your computer by selecting the option **Save As** in the menu **File**.

If the connection between the TeCom-PRO and the computer cannot be established because of various reasons, e.g. the handheld transceiver is not turned, the programming cable is not connected properly or the wrong COM port is selected, the message **Communication Error** will be displayed.

Data Transfer from the Computer to TeCom-PRO

After the modification of the settings, save those under a new file name before data transfer is started.

There are two ways to start the data transfer. Either you select the option **Write to Radio** in the menu **Program**, or you click on the computer icon with the blue, toward-pointing arrow that can be found below the main menu.

The window **Write to Radio** will open. Start the data transfer by clicking onto **Write**. The progress will be indicated by a blue bar. After completion of the data transfer, the window will close automatically.

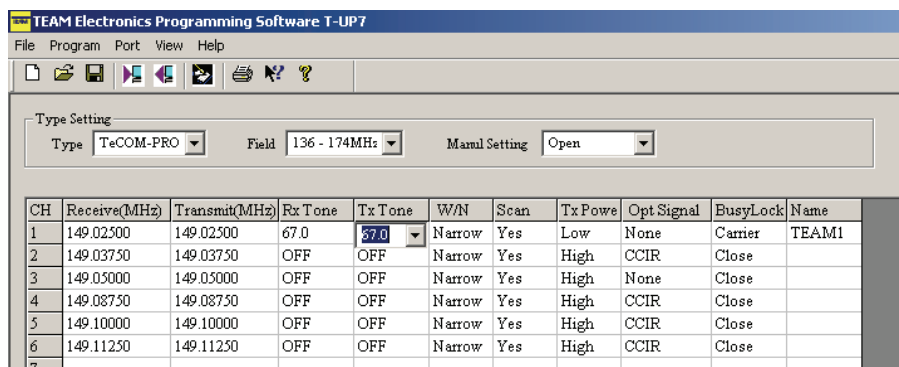
Channel Settings

The main parameters of a channel are edited directly in the main window, which appears automatically after opening the software.

Each channel with its settings is displayed in a separate row.

Entries and modifications are edited directly in the according cell.

When entering receipt- and transmit-frequency click on the according column in the desired row of the channel to be edited, and enter the frequency with the keyboard. Do not use a comma as a separator but the dot instead. All other parameters have the available settings listed in the drop-down menu that opens up when clicking into the according cell.



For each channel, the following settings are available:

Receive (MHz) : Receiving Frequency (MHz)
 Transmit (MHz): Transmit Frequency (MHz)
 Rx Tone : Receiving CTCSS / DCS Code
 Tx Tone : Transmit CTCSS / DCS Code
 W/N : Bandwidth wide / narrow (W/N – 12.5 / 25 kHz)
 Tx Power : Transmit Power High / Low
 Opt Signal : Optional Signal
 BusyLock : Transmit Blockage on occupied Channels
 Name : Channel Name

Additional Functions

Following Functions are managed in the window **Optional Features**, which is located under **Programs**.

Time out timer
Squelch
Voice Annunciation
VOX
Beep Tone
Battery Save
Scrambler
ANI (Automatic Number Identification)

The parameters for most of these functions are set via software. On the handheld transceiver itself these functions can be activated or deactivated. With some functions (Squelch, Vox and Time Out Timer) the possible settings can be selected on the handheld transceiver.

Hint: The edited data has to be transferred to the TeCom-PRO first before modified parameters are available.

Screenshot of the window *Optional Features* :

Time out time (TOT)(s) : Max. Transmit Time in seconds (Off, 0 – 600 s in 15-second-steps)

Squelch Level : Squelch 0 – 9 (**0** = closed squelch,
9 = max. open squelch)

Language Choose : Voice Annunciation of all entries and changes of settings (Off / English / German)

Vox Gain Level : Voice Operated Signal Transmission (OFF, 0 – 9); **0** = lowest sensitivity,
9 = max. sensitivity

Beep : Alert Tone

Battery Save : Alert Tone on Low Battery-Voltage

Scrambler Activation : Signal Scrambler (Ein / Aus), Receiver and Transmitter must both have the scrambler function activated to hear the clear un-scrambled signal. All other radios that operate without the scrambler function, the signal is not clearly understandable.

ANI : Automatic-Number-Identification, with the activated ANI-function (receiver and transmitter) the five-digit radio ID of the transmitting radio is shown on the receiving radios display.

All available parameters of the frame PTT ID have to be activated:

Optional Signal in Frequent Mode : CCIR
Radio ID : 5-digit, numerical, individual Radio ID
End of TX : has to be selected
Call ID : same 5-digit, numerical Call ID
 Has to be the same for all participants

Hints:

1. The 5-digit, numerical Radio IDs of the participating handhelds have to be different from each other.
2. In the main window, the parameter **Opt. Signal** has to be set to **CCIR** for those channels that want to be operated with the ANI function.
3. The ANI function has to be activated on the handheld transceiver – see point 10 in the menu of the TeCom-PRO.

High / Low Power Debug

The Tx powers High and Low that can be selected via the menu of the handheld or the software, can be set in the menu **Program/High Power Debug** and **Low Power Debug**.

Modifications of the default settings should only be done by authorized TEAM service personnel to guarantee the compliance of the permitted maximal Tx power.

The maximal permitted Tx power for professional frequencies is documented in the licence that is issued by the governmental telecommunication agency of your country upon application.

IMPORTANT:

It is only allowed to program those commercial frequencies that are assigned to you with the licence. PMR and freenet frequencies have a maximal permitted Tx frequency of 500 mW.

Self-Programming Mode

IMPORTANT:

It is only permitted to activate the self-programming mode for the radio versions VHF-COM and UHF-COM. In the activated self-programming mode, in addition to the channel mode, the frequency mode is available. The frequency mode allows to directly program channels and their parameters with the handheld transceiver. More information about the available parameters and their settings of the self-programming mode can be found in the manual of the TeCom-PRO.

Hint:

It is only permitted to program those frequencies on the handheld transceiver that a licence is issued for. Contact your governmental agency for telecommunication for more details.

The function self-programming mode is managed by the parameter **Manual Setting**, which is located on the right side in the frame **Type Settings**.

