TRV/TRU-100: Long-Range UHF/VHF Radio Transmitters

Installation & Programming Guide

The TRV-100 & TRU-100 are PIMA long-range radio transmitters. Designed to transfer data reliably over the radio, the transmitters can also serve as a backup channel to the PSTN communication.

The transmitters can use 2 frequencies (one by one) in the same range: UHF Low/High or VHF Low/Medium/High.

The second frequency can be used per event type, e.g., Test events can be transmitted on the second channel only - or be used as the transmitter's only frequency; see further in this guide.

The transmitters are programmed by PIMA's COMAX PC application.

WHAT'S IN THE PRODUCT PACKAGE?

- TRV-100 (VHF) or TRU-100 (UHF) transmitter;
- 5 pin Molex harness with female connectors (for connecting the transmitter to the control panel);
- A wire with a 2 pin Molex female connector (for the 2nd channel trigger);
- Compatible (frequency and model) antenna;
- 4 screws (for connecting the transmitter to the control panel's box);

SAFETY & MOUNTING GUIDELINES

- Disconnect the control panel from power (AC & DC) before installation;
- Do not mount the transmitter close to a metal wall or ceiling;
- Make sure the antenna is not mounted in parallel to the detectors' wires, or at least keep a distance between them;
- Mount the antenna only after installing the transmitter;
- Make sure the antenna is vertically mounted;
- Before performing transmission tests, close the control panel's metal case;

PIMA
FOR BETTER PROTECTION

CONNECTING THE TRANSMITTER

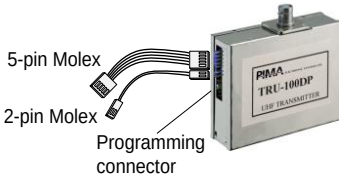

Figure 1. The transmitter's connectors and cables

Figure 2. The transmitter mounted in the control panel's box

1. Insert the transmitter's antenna base into the control panel's box top side hole, inside-out.
2. Fasten the transmitter using the 4 supplied screws. Make sure the screws are tightened! otherwise the transmission can be attenuated.
3. Connect the antenna to the transmitter.
4. Connect the 5-pin Molex cable between the transmitter's "To the System" socket, and the control panel's TRANSMITTER socket.

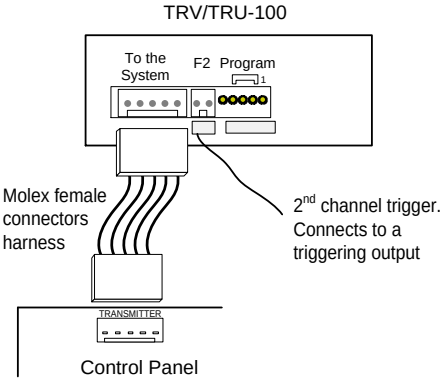

Figure 3. Connecting the transmitter to the control panel

To use the second frequency

1. Connect the 2 pin female Molex with the wire to the transmitter's "F2" connector and its other end to one of the control panel's outputs. Make sure the output is switched to (-) when triggered.
2. Choose the events that will trigger the second frequency and program the triggering outputs in accordance. Refer to the panel's "Installation guide" for instructions.
3. To permanently broadcast on the second frequency, connect the wire to a (-) terminal on the control panel.

PROGRAMMING THE TRANSMITTER BY THE COMAX

The transmitters' frequencies are programmed by the COMAX upload/download PC application.

The PC/Laptop on which the COMAX is installed is connected to the transmitter by the DPU Serial/USB adaptor. The DPU uses a special driver to operate. See its installation guide (P/N 4410327).

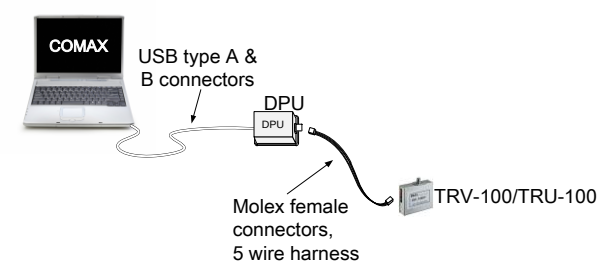

Figure 4. Programming the transmitter

After installing the DPU, run the COMAX and follow the next steps:

1. In the "Direct" tab (Tools → Settings), select the DPU's COM port (#4 - #16) from the drop-down list (see the DPU guide for information).
2. The "Direct Test" button becomes active (not grayed). Press it. You should receive a confirmation message that a test has ended successfully; if not, an error message will be displayed.

Writing and reading the frequencies

1. On the COMAX, click the "New" button or select Account -> New.
2. From the drop-down list, select TRANSMITTER.

General

First Frequency	000.0000
Second Frequency	000.0000

3. Enter the first and (optionally) the second frequencies. See the next table.
4. Click the "Direct Write" button  and select a program to write.
5. To read the frequencies from the transmitter**,** click the "Direct Read" button  and select a program to read.

Frequencies range table (MHZ)

	(**L**)[1] Low	(**M**)[1] Middle	(**H**)[1] High
UHF	400-435	435-470	470-500
VHF	135-156	-	154-174

Limited Warranty

PIMA Electronic Systems Ltd. does not represent that its Product may not be compromised and/or circumvented, or that the Product will prevent any death, personal and/or bodily injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. The User understands that a properly installed and maintained equipment may only reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no death, personal damage and/or damage to property as a result.

PIMA Electronic Systems Ltd. shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function.
Please refer to a separate warranty statement found on PIMA website at: http://www.pima-alarms.com/site/Content/t1.asp?pid=472&sid=57

All efforts have been made to ensure that the content of this manual is accurate. Pima retains the right to modify this manual or any part thereof, from time to time, without serving any prior notice of such modification.

Please read this manual in its entirety before attempting to program or operate your system. Should you misunderstand any part of this manual, please contact the supplier or installer of this system.

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[1] The letters L/M/H (Low/Medium/High) are imprinted on the transmitter's lable