PIMA
FOR BETTER PROTECTION

TRU/TRV-100 Digital Transmitter

ISO 9001:2000 — IQC Institute of Quality & Control — Certified Quality System

I&F series — INSTALL & FORGET™

The long-range transmitter TRV/TRU-100 is designed to transfer data via wireless and/or backup the PSTN communication line to the CMS. The TRV/TRU can transmit in two frequencies that fit in the same frequency range (see Frequency Table below).

It is possible to use only one of the frequencies or change frequencies according to the event.

What's in the Package?
- Transmitter: TRV-100 (VHF) or TRU-100 (UHF)
- 5pin MOLEX Female cable (glued to transmitter)
- 2pin MOLEX Female wire (F2)
- Set of screws

Installation Requirements
- Compatible antenna for the transmitter's frequency and model
- PIMA control panel: HUNTER-PRO, HUNTER, CAPTAIN-*i*, SAT-8

Programming Requirements
- COMAX program
- DPR-44 (adaptor for PIMA's transmitters)
- PC with operating system: WINDOWS 98/NT/2000/XP

Installation Instructions

NOTE:
The transmitter's installation instructions refer to PIMA control panels only.

4 screws (at the base of the antenna connector)
5pin male Molex connector
2pin male Molex connector
Program connector
Frequency range (UHF/VHF)
DP (Digital PIMA)/AP (Analogue PIMA)
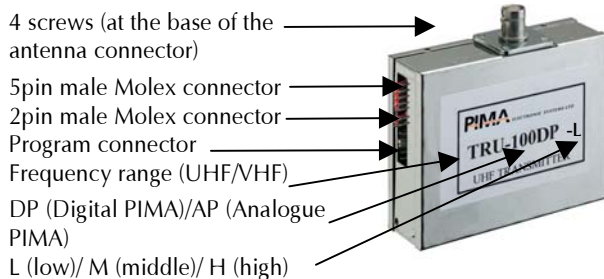L (low)/ M (middle)/ H (high)

Figure 1-Transmitter's Cable and Wire connections

IMPORTANT!
When an RF transmitter is installed in a control system, the following guidelines must be applied
- Disconnect the power (AC & DC) before installation
- Do not install the metal case on a metal wall/roof.
- Make sure there is enough space for the antenna between the mounting box and ceiling
- Distance the system's wiring from the antenna as much as possible (at least 0.5 meter)
- Install the antenna only after finishing installing the rest of the system
- Commence transmission tests to CMS only with a closed mounting box

Connecting the Transmitter
1. Mount the metal case on the designated surface.
2. Connect the top of the transmitter to the top of the mounting box using the four screws. Make sure the screws are tightened; otherwise the transmission can be attenuated.

3. Connect the antenna to the transmitter
4. Make sure the 5pin MOLEX Female cable is connected to the transmitter's 5pin MOLEX male connector ("To the System" on transmitter)
5. Connect the other end of the 5pin MOLEX female cable to the 5pin male MOLEX on the control panel's upper left side ("Transmitter" on control panel.)

Using the Second Frequency (F2)

NOTE:
By executing stages 6 and 7 the transmitter will operate only with the second frequency or switch between frequencies according to the event's type. **Don't** commence this stage when using only the first frequency.

6. Connect the 2pin female MOLEX wire to the transmitter's 2pin male MOLEX ("F2" on transmitter.)
7. Connect the other end of the 2pin MOLEX wire to the control panel according to the designated operation:

<u>Operating permanently with the second frequency</u>
Connect the wire's other end to a negative output (-) on the control panel.

<u>Operating with two frequencies according to event type</u>
- Connect the wire's other end to one of the system's outputs such as ON/OFF, SMOKE, ALARM (according to the control panel's type.)
- Program the control panel to activate the output according to the type of event designated for the second frequency (refer to the specific control panel's "Installation Manual" for progamming outputs.)

Programming TRV/TRU with COMAX

IMPORTANT!
- Make sure the transmitter's programming is executed within its designated frequency range.
- Note the marking of the letters L/M/H on the sticker taped to the transmitter.

	(L) Low Freq.	(M) Middle Freq.	(H) High Freq.
UHF	400-435 MHZ	435-470 MHZ	470-500 MHZ
VHF	135-156 MHZ	-	154-174 MHZ

The transmitters' frequency is directly programmed through DPR-44. In order to learn how to connect and program the transmitter, refer to section "Connecting and Configuration in direct programming" in "COMAX User Manual"