

## TRV-100 / TRU-100 LONG-RANGE RADIO TRANSMITTERS

PIMA's Long-Range Radio Transmitters are an integrated alarm signaling transmitters used to send data to monitoring stations equipped with radio receivers.

These unique triple-communicator encoders, integrated with PIMA's control panels, enable full-data reporting of all events and status even when transmitted via RF. This can be done in parallel and/or as a backup to the telephone line and without decreasing the level of details.

The TRV/TRU-100 integrates with all of PIMA's control panels and designed for installment inside the panel's box and to use its backup battery.

The modules are small in size and easy to install, hence provide hassle-free installation and wiring.

Radio transmission of alarm signals can be used in parallel or as backup for telephone lines (protection against line cutting) or in areas with poor telephone infrastructure as the main communicator.

- Easy mounting in the panel's metal box using a serial bus connection to PIMA's built-in panel encoder
- PIMA's proprietary advanced PAF radio protocol for faster, more detailed and complete reporting
- Easy programming of frequencies and transmission parameters with any PC and PIMA's COMAX download software
- Uses the latest RF technology and meets the European Radio Directive 1999/5/EC

### Main Features:

- Panel integrated digital synthesized VHF/UHF transmitters
- Two working frequencies; High priority events can be assigned to a less busy frequency
- Fast event transmission time (NPAF mode): 1 - 1.5 seconds
- Saves valuable airtime
- Prevents frequency blocking
- Prevents loss of information
- Complete radio (RF) interference immunity from panel, prevents false alarm caused by transmitter operation
- "Swinger shut-down" performs transmission cut-off in case of repeated false alarm reports

### Specifications:

- Operational voltage: 9 to 14 VDC; 12 VDC nominal
- Current consumption: Standby: 10 mA; Transit: 1.5 A
- Frequency stability: 2 ppm MAX at -10° to 50° C
- Bandwidth: 12.5 KHz
- Carrier modulation: FM at 2.5 KHz; Max frequency shift
- Operating temperature: -10° to 50°C
- Humidity: 75% non-condensing
- TRV-100 dimensions: 9.5 x 7.3 x 3 CM, 140 gram
- TRU-100 dimensions: 9.5 x 7.7 x 3 CM, 140 gram
- CE approved, meets EMC and Radio and Safety European standard



### TRV-100 frequency range:

LOW: 136 – 157 MHz  
HIGH: 154 – 175 MHz  
RF power output at 12V: 5 Watts +1dB; 50 Ω load

### TRU-100 frequency range:

LOW: 400 – 435 MHz  
MED: 435 – 470 MHz  
HIGH: 470 – 500 MHz  
RF power output at 12V: 2.5 Watts +1dB; 50 Ω load

\* All specifications are subject to change without prior notice