

SAT-9

Phone line to transmitter
Communicator

TD-900

Standalone SAT-9 Solution



Specification

1. INTRODUCTION

1.1. The SAT-9

The SAT-9 is a phone line to radio adapter and communicator. It is made of the SAT-9 card and the TRV-100 or TRU-100 Long-range transmitter.

The SAT-9 can be connected to any control panel and it enables the panel to transmit reports to a Central Monitoring Station (CMS) via the Radio. Both transmitters support two frequencies and a variety of protocols.

The SAT-9 has a built-in encoder and it performs periodic auto-tests and telephone line checks.

The parameters of the SAT-9 and the transmitter' frequencies as well as different transmission parameters are programmed by the COMAX Upload/Download PC/ laptop application.

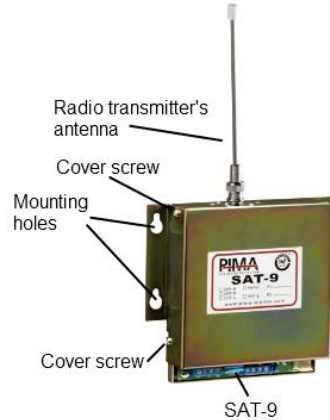


Figure 1. The SAT-9

1.2. The TD-900

The TD-900 is a complete standalone solution for the SAT-9.

The TD-900 includes the SAT-9 assembled in a closed metal box with the PS-2 Power Supply and a place for a backup battery (not included), and an optional tamper switch protection.

The TD-900 can be used with either a UHF or VHF transmitter. Note that the UHF and VHF transmitter use different antenna connectors

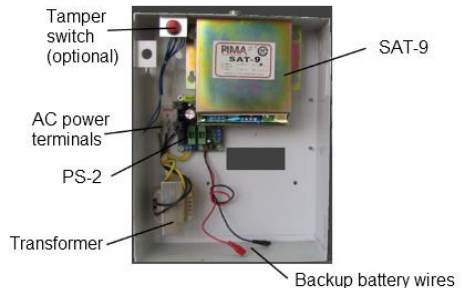


Figure 2. The TD-900

1.3. The SAT-9 main features

- Two operating modes:
 - As main communicator: All events are transmitted via RF;
 - As PSTN backup: Events are transmitted in case of a PSTN problem;
- Supports variety of protocols:

- Input Protocols (from dialer): Contact ID, Pulse, and DTMF;
- Output Protocols (RF to CMS): PID, PAF™ / NPAF™, Intrac 2000 and Milcol-D;
- Accounts from panel or internal programmed accounts:
If an account number is not programmed, the SAT-9 uses the account number received from the control panel;
- Supports two frequencies: Each frequency can use a different format
- Control:
 - PGM input: Selects if SAT-9 functions as backup or main communication channel;
 - PSTN monitoring: Performs line check and line interception (with pre-programmed phone number);
- Transmission LED: Turned ON when SAT-9 is transmitting data;
- Auto Test Mode: Periodic transmission test as programmed;
- Manual Test Mode: Manual transmission test with a TEST button;

1.4. Technical specifications

Environment	Temperature: °C (-10) - (+50) Humidity: 75%, non-condensed
Operating voltage	9 -14 VDC (12 nominal)
Current consumption	Idle: 15mA Transmitting: 1.5A
PGM input	Voltage (Open): 12V Current (Closed): 1mA Signal Sensitivity: 500mSec
Telephone set output	Voltage (Open): 12V Resistance: 600 Ohm
Frequency range	VHF Low: 136 - 156MHz VHF High: 154 - 174MHz UHF Low: 400 - 435MHz UHF Mid: 435 - 470MHz UHF High: 470 - 500MHz
Bandwidth	12.5KHz
Output power	VHF: Up to 5W±1dB at 50Ω load UHF: Up to 2.5W±1dB at 50Ω load
Frequency stability	2 PPM max
Carrier modulation	FM
Enclosure dimensions	SAT-9: cm 11W x 11H x 6D; Weight : 460 gr.
	Transmitter unit: cm 14W x 14.5H x 6D; Weight: 129 gr.
	Metal Box (TD-900): cm 23W x 30H x 10D; Weight: 2.64 Kg

Manufactured by:

PIMA Electronic Systems Ltd.
5, Hatzoref St., Holon 5885633, Israel
Tel: +972.3.6506411

Email: support@pima-alarms.com
<http://www.pima-alarms.com>