

# Inova-bg Ltd.

GPRS TauL

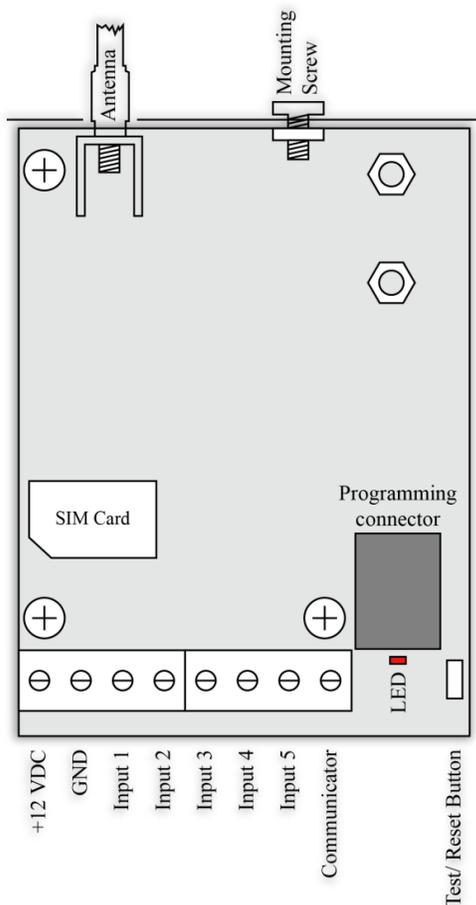
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## 1. Main features

GPRS TauL is a communication device with the main purpose to transmit data from security panels and/or sensors through GPRS based network. Using the advantages of these advanced communication technologies GPRS TauL provides the most secure connection with monitoring center..

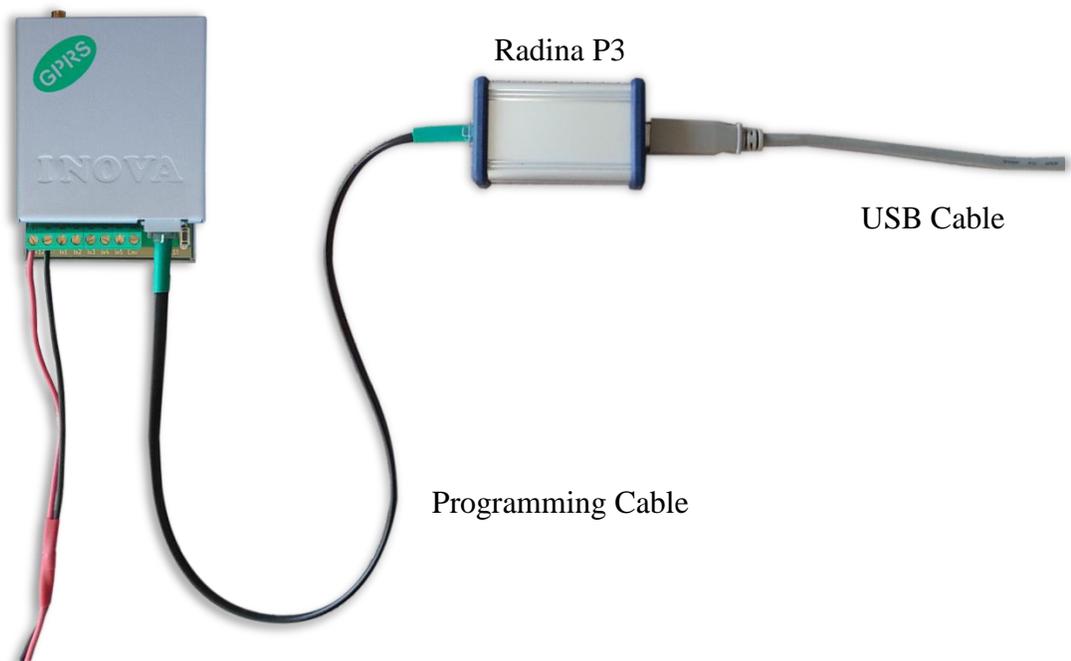


### Features:

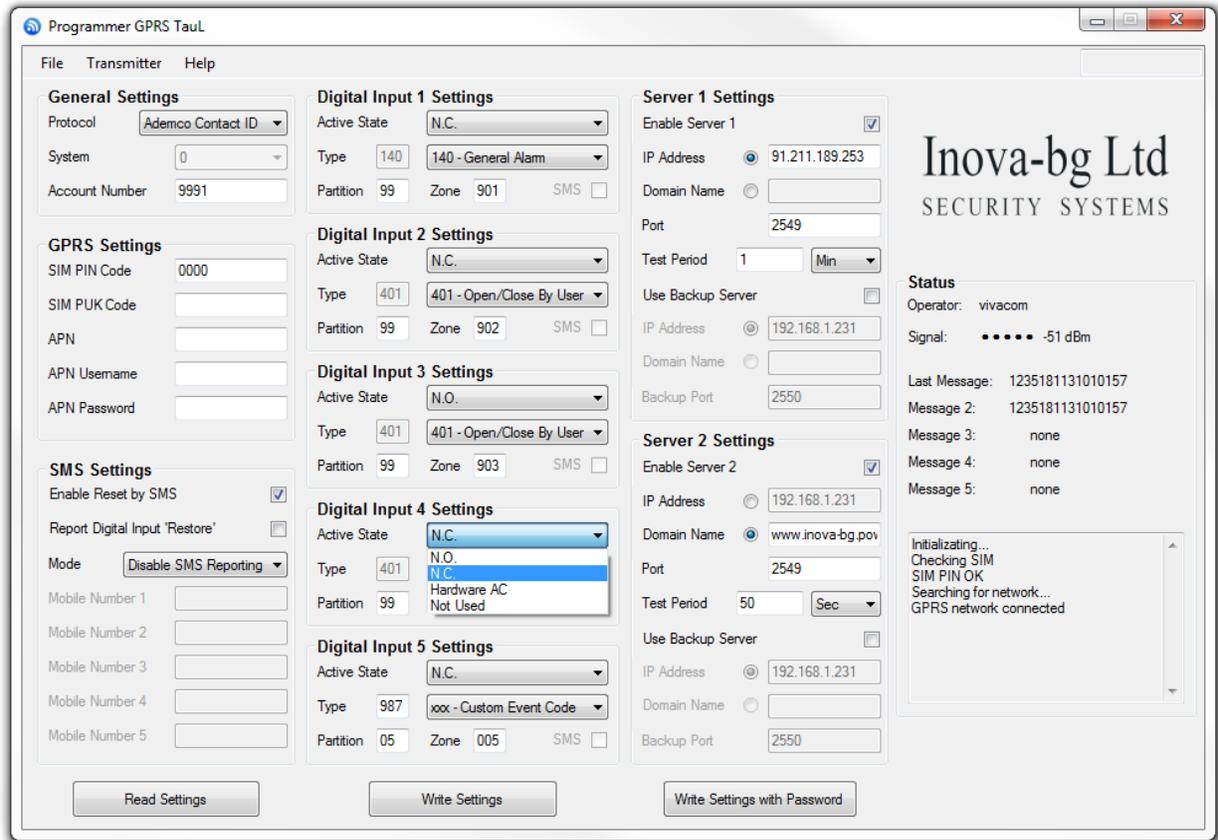
- Power supply 12VDC (8,5V to 16V)
- Low power consumption
- Capability to use communicator as input – using “Ademco Contact ID” protocol
- Five digital inputs – fully compatible with “Ademco Contact ID” Protocol – programmable Event Code, Partition and Zone.
- Configurable working mode for each digital input: Normal Open, Normal Close, Check for AC voltage from 5V to 20V, Deactivated
- Capability to use one or two fully independent servers – each with main and backup IP/Domain Name address
- Encrypted connection with the servers
- Programmable connection test period – range between 1 to 65535 seconds
- Capability to enter PIN or PUK code for the SIM card
- Graphical display of the status of the GPRS network
- SMS report of the status of the communicator and/or digital inputs to up to 5 mobile numbers
- Capability each digital input separately to be set to transmit SMS report

## 2. Start working with GPRS TauL

Connect the programmer Radina P3 to the USB port of your computer. If drivers are not installed, please download them from the download section on our web site <http://www.inova-bg.com/en/downloads.html>. After that start the programming software: **Programmer GPRS TauL**.



### 3. Programming software: Programmer GPRS TauL



#### 3.1. General Settings

**Protocol** – Select Protocol – Ademco Contact ID, LARS

**System** – System number when working on LARS Protocol

**Account Number** – If working with LARS protocol - first three symbols must range 0 to 7 and the last symbol must range 0 to 9 or A to J. In the monitoring software, the last symbol can be set as a digit or letter ( the digits 0 to 9 correspond to the letters A to J ).

If working with Ademco Contact ID protocol – each of the four symbols must be from 0 to 9 and/or from B to F.

## 3.2. GPRS Settings

In the GPRS Settings, the parameters of the mobile operator must be entered.

In **SIM PIN Code** the PIN code must be entered. If the sim card doesn't use PIN code, this field has no role (empty or not).

**APN** (Access Point Name), **APN Username**, **APN Password** are parameters of the mobile network. The mobile operator must provide them.

## 3.3. SMS Settings

**Enable Reset by SMS** – if enabled the device can be reset remotely with SMS

**Report Digital Input 'Restore'** – if enabled the GPRS TauL will send and SMS not only for alarms, but also for restores after the alarms.

SMS report can be sent to up to 5 phone numbers.

Reporting Type sets, which of the signals to be sent as a SMS report.:

- **Disable SMS Reporting** – Deactivates the SMS reporting function.
- **From Communicator** – SMS report will be sent to each phone number, only when alarm message is received from the communicator.
- **From Digital Inputs** - SMS report will be sent to each phone number, only when alarm message is received from digital inputs. To each digital input sms report can be enabled/disabled separately.
- **From Communicator and Digital Inputs** - SMS report will be sent to each phone number, when alarm message is received from the communicator or digital inputs. To each digital input sms report can be enabled/disabled separately.

## 3.4. Servers Settings

The first group is corresponding to the first monitoring server. You must set the **IP address** or **Domain Name** and the communication **UDP port**. Also set the **test period** for sending test messages to the server. If **Use Backup Server** option is enabled – a secondary IP Address/Domain Name could be set. If the server on the primary address is not available – the device will try to send the data to the backup address. This option is usefull if the server has two addresses from different ISPs.

If you want to use the second server you must enable it - **Enable Server 2** – and to set the parameters in the same way as for Server1.

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## 3.5. Settings for the digital inputs

Digital inputs can be connected to PGM outputs of security panes or to any different kind of sensors – panic-buttons, tampers and etc. In the **Active State** field you can set the working mode of each input – normal close ( N.O. ) or normal open ( N.C. ) contact, check for AC on this input ( Hardware AC ) or you can disable the input ( Not Used ). When digital input is connected to PGM or dry contact, for ‘0’ state is accepted value of the resistance to ground less than 300 $\Omega$  and for active ‘1’ – value more than 1,4K $\Omega$  ( or open circuit ), the hysteresis is between 300 $\Omega$  and 1,4K $\Omega$ . If digital inputs are controlled by voltage for ‘0’ state is accepted value of the voltage to ground less than 0,7V, and for active ‘1’ – value more than 2,6V, the hysteresis is between 0,7V and 2,6V.

Settings for each input you can set the following parameters:

**Type** – Choose a message which will correspond to the change of state of this input

**Partition** (from 0 to 15) and **Zone** (0 to 255) determines the corresponding parameters for the messages generated from each digital input. **SMS** – if the SMS report from digital inputs is enabled – this option enables/disables the SMS report for each digital input separately.

## 3.6. Status Panel

In this panel you can find main information about the device, GPRS operator, GPRS signal strength, last 5 messages received from the communicator and GPRS connection status.

## 3.7. Saving the new configuration

There is two ways to save the configuration on each device - with or without a password. This is done by the buttons - **Write Settings** and **Write Settings with Password**.

**Write Settings** - If this button is used the device configuration will be saved without a password.  
**Note:** If previously a password is used, it must be entered before saving the new configuration.

**Write Settings with Password** – If this button is used the device configuration will be saved with a password. After that, every attempt to read or re-write the configuration will require a password.

**Note:** If previously a password is used, it must be entered before saving the new configuration.

If everything is OK, a confirmation window will be displayed.

## 3.8. Reading configuration from device

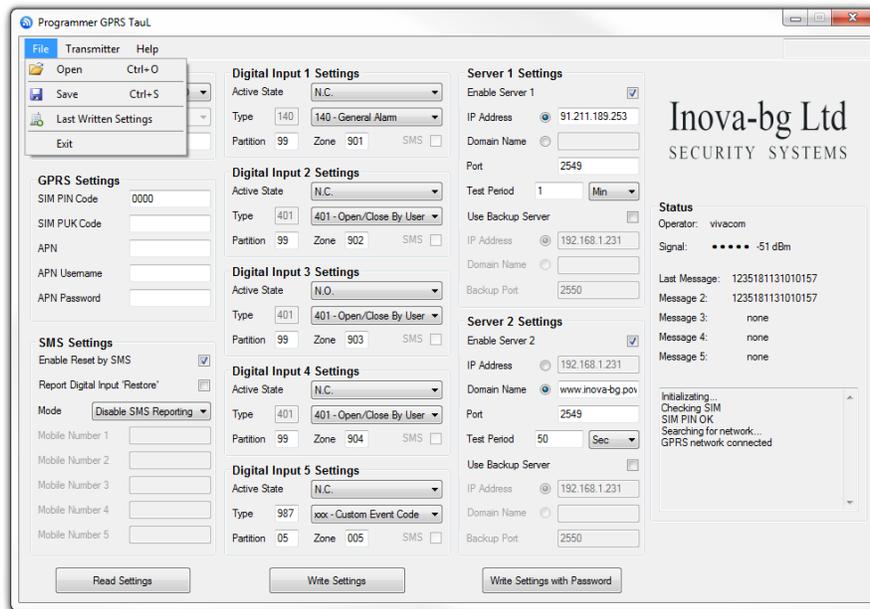
This can be done by pressing the button - **Read Settings**. If previously a password is used, it must be entered before reading the configuration.

### 3.9. Open/Save configuration

In the File menu, there is buttons **Open** and **Save**.

By pressing the **Save** button, current configuration can be saved and to be used again very easy.

With the **Open** button, a saved configuration is loaded.



## 4. Hardware reset

In case you changed the settings and can't reach the device or if you forgot your password, GPRS TauL is capable to return to its factory defaults. For this purpose you must disconnect from power supply, push and hold the button for hardware reset and reconnect to the power supply. Hold the button for 5 seconds until the LED is blinking. Once the LED goes off you can release the button and connect to the device.

## 5. Hardware connections

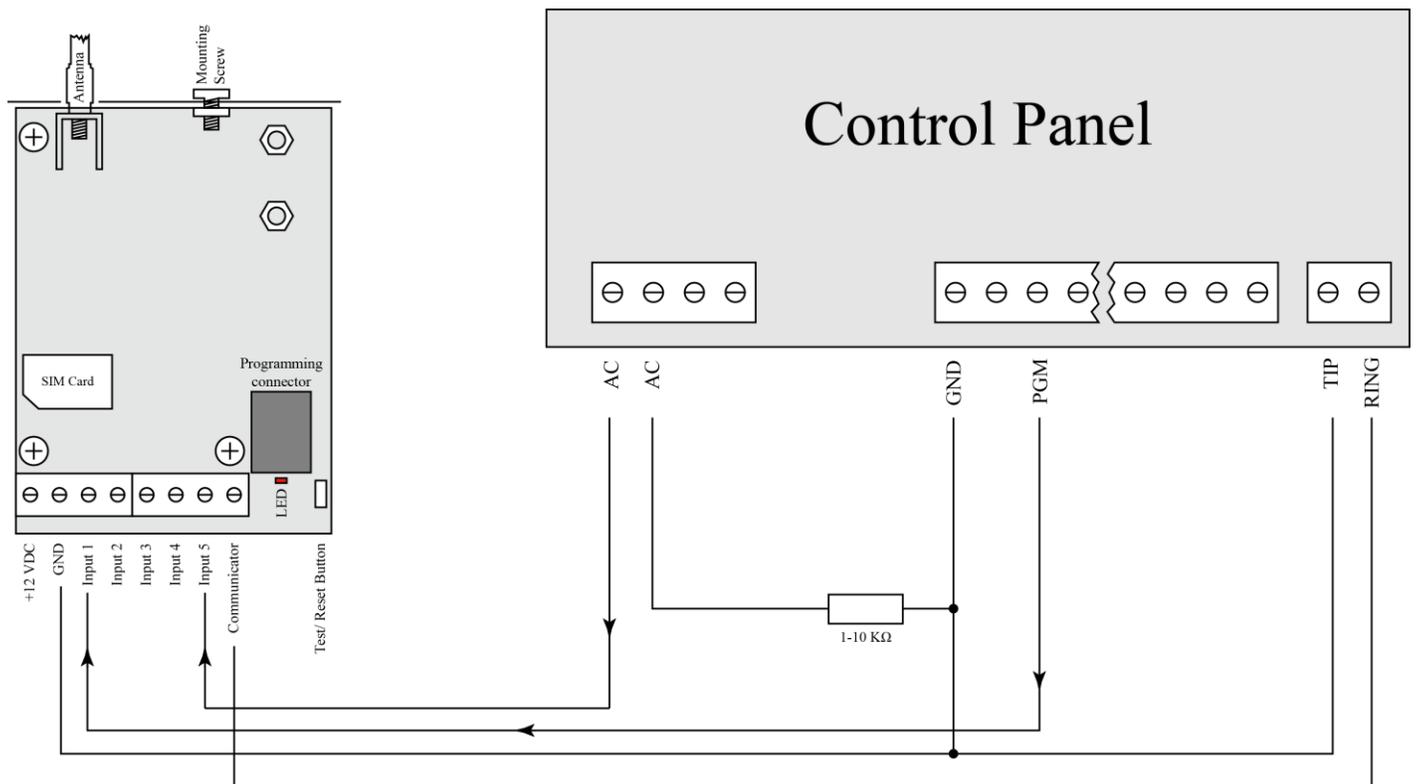
Each of the digital inputs could be used as a “Hardware AC” input. In this mode it will monitor the AC and generate a message for “AC Loss/AC Restore”.

GPRS TauL has built-in communicator/dialer receiver. It can receive data from each security panel with communicator/dialer option. Settings for the security panel (in some models additional settings may also need to be made):

**Phone Number: 9**

**Protocol: Ademco Contact ID**

**Wait Dialtone: Disable**



## 6. Mounting in the security panel box

The mounting screw on the top of GPRS TauL should be used for proper mounting of the device in the box of the security panel. The pictures below shows how to use it.

