DMA-51
GPS/GSM Car Alarm System

DMA-51 GPS/GSM car alarm and monitoring system is a new generation of our vehicle monitoring devices. This wireless GPS tracking system gives you fast and easy access to all detailed fleet tracking, reporting and security data, both historically and in real time using built-in GPS module.

You can control the system using a mobile phone (arm, disarm, lock, unlock, start and stop the engine of car, listen in, check status and speak to the car ,cut off the power) in real time, and also can check the location of DMA-51 equipped vehicle on PC, PDA and on-line using web-browser. System setup and remote control is performed in the real-time mode using DTMF signals via built-in voice menu.

Increased number of protected zones, reduced power consumption and integrated 3-axis accelerometer make this device indispensable in antitheft vehicle protection.

Device overview

- The number of protected zones-7 plus 1 input of the alarming button.
- The number of remotely controlled outputs-5.
- SMS warnings. When the input is active or a system emergency occurs (external power supply failure etc.), DMA-51 creates a signal text message and sends it to the relevant numbers.
- Arm/disarm by mobile phone, telephone, and remote control. Programmed text messages and messages about arming/disarming.
- Reports in the form of SMS about all the tunings and the state of the system.
- Remote arming/disarming.
- Integrated Li-Ion battery.

System features

- Simplicity of installation, the system supplied with specific settings maximum close to most of cars. Possibility of working with factory installed remote commanders.
- Flexible setting of access restriction to 10 phone numbers allows access to the system to registered users only, whose numbers are in the list. One can determine for each number only the type of events one wishes to be informed of, in the form of sound messages and/or SMS.
- Flexible configuration of built in alarm messages and possibility of recording your messages.
- DTMF management with voice prompts allows users to manage the system during a voice connection, as well as tone signals (DTMF), and receive voice answerbacks, the way it works in a cell operator's subscriber service. Each connection session starts with device PIN-code, which provides additional protection of the system, aside from user identification by phone number.
- Guarded vehicle eavesdropping can be initiated remotely by DTMF. DMA-51 will switch to the external microphone directly upon DTMF-command receipt. User can return to the main voice menu anytime.
- Possibility of distance blocking of failed alarm sensors and monitoring most of device functions.
- Wide capabilities of event routing. Active and/or passive status of the input can influence the relay or output status. You can program impact of any input on relays and outputs. Guard setting and deactivation can also influence the status of relays and outputs. This

allows using relays in various configurations, for instance, for setting the alarm ON or for automatic reset of fire detection sensors upon actuation.

- Opportunity of giving alias names to inputs and relays. Each input and relay has a name used for status enquiries and management. Each input has a name for active and passive status. Alias names are programmed by the user.
- Independent configuration for all 7 inputs. The following features could be customized:
  - name of a sensor, names for sensor active and passive statuses;
  - alarm zone borders – upper and lower zone borders determine the interval of voltages within which the input is active;
  - input type: analogous/discreet;
  - active level has 4 modes: indeterminate, zone is active at 0 V voltage, zone is active at resistor presence, zone is active at 12 V voltage ;
  - day and night control regardless of the guard mode, for fire detection sensors, water or gas leak sensors, alarm button etc.;
  - action for indicating an active input: voice calling, SMS, calling and SMS, no actions;
  - impact on relay.
- Independent configuration of each of 5 outputs. It is possible to set up the following options:
  - switching type: level or impulse, impulse duration;
  - allow/disallow management by voice-menu.
- Receiving GPS coordinates by 3 following ways of choice or simultaneously:
  1. Via GPRS to the HTTP server with a database (cartographical software is not included in the kit)
  2. Via SMS messages with the coordinates of the object
  3. Via direct calling GSM-data with receiving the coordinates on the client's mobile device.
- External power failure and battery discharge warnings. DMA-51 creates messages and calls the relevant subscribers in case of external supply failure and recovery and if the internal battery discharge is on the critical level.
- GPS logging facility to internal memory of DMA-51 ensures protection against the loss of the tracking data while out of GPRS/GSM network coverage. The memory capacity is sufficient for several month of work.
- Integrated 3-Axis Accelerometer;
- Remote inquiry of the SIM-card balance.

Specification:

Operating voltage 15V (±30%)

Power consumption:

- in standby mode 45 mA
- while GSM is active 150 mA

GPS receiver module: 20 channel SiRF Star III

GSM module: 900/1800/1900MHz, GPRS multi-slot class 10

Operating temperature: -20 °C +50 °C

Humidity: 0%...95%

Dimension: 120mm x80mm x30mm