GuardMagic VB3 - compact universal vehicle GPS/ GSM-GPRS module with logical inputs, fuel monitoring function and driver identification function.

GuardMagic VB3 provides immediate transmitting or storing and posterior transmitting information of vehicle location, parameters of vehicle movement, status of external sensors or external circuits, fuel level in vehicle fuel tanks, active driver to vehicle monitoring station (special server) by GSM-GPRS network.

GuardMagic VB3 provides wireless connection to the Internet network, connection to the Internet server (Monitoring Station) and transmitting information to the Internet server (Monitoring Station).

GuardMagic VB3 is intended for construction vehicle "On-Line" monitoring and fuel monitoring system, fleet management system.

In addition module **GuardMagic VB3** allows providing remote guard of transport.

GuardMagic VB3 typical features:

- GPRS traffic economy – intellectual data packing;
- 7 logical inputs;
- Supports up to **THREE FUEL** vehicle regular tanks (fuel level sensor);
- Driver identification function;
- Immobilization function;
- Reserve battery connection;
- Store data (230 thousand records) in internal memory when GPRS is absent and automatic start to transmit data when GPRS appear;
- Operation mode: "Transport", "Special Technic";
- two types of functionality in operation mode: standard mode; packet mode;

GuardMagic VB3 modules support "GuardMagic Universal Communication Protocol".

GuardMagic VB3 is intended for function in GSM 900/1800/1900 networks.
(quad version in GSM 800/900/1800/1900)

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GuardMagic VB3:
- immediate transmitting to monitoring center information about vehicle location, movement and status;
- automatic storing data in internal memory when GPRS connection is absent;
- automatic starting sending data from internal memory when GPRS connection appears;
- 230 thousand records in internal memory;
- supports up to **THREE fuel level sensors** (vehicle regular tanks) with EIA-485 communication interface;
- driver identification function;
- immobilization function;
- operation mode:
  - "Transport";
  - "Special Technic";
- two types of functionality in operation mode:
  - standard mode (real time);
  - packet mode;
- automatically switch to "sleep mode" (energy-efficient mode) if transport with no activity.

GuardMagic VB3 can be applied:
- on motor transport (passenger or cargo);
- on road, building, and special machinery;
- on tractor, bulldozers, dredges, combines;
- mining machinery;
- agricultural technics;
- on railway transportation;
- on river transport

GuardMagic VB3 provides to immediate transmitting or storing in internal non-volatile memory and posterior transmitting the following information:
- GPS track of transport (geographical coordinates);
- GPS parameters of movement (speed, time);
- Fuel level in fuel tank (Fuel history up to THREE regular tanks)*;
- Active driver identification number (Driver ID)*;
- Panic signal;
- Engine overheat*;
- Road accident*;
- Car Alarm activation*;
- Attempt to theft;
- Engine status;
- Fuel Tank Empty;
- Status of external logical circuits (logical input, "Event Button").

Using the information transmitted by **GuardMagic VB3** about vehicle, vehicle location, information from external sensors is possible to:
- check the current location of vehicle;
- check the whole track of the transport movement and the optimality of route;
- check parameters of movement and real run of transport;
- check real fuel consumption;
- check up volume of fueled fuel and determine the fact of fuel drain;
- personalize the active driver;
- determine start/end of loading/unloading of a vehicle;
- check the use of working hours and visited points;
- check the performance of the job or analyze the reason of job failure.

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