

# Main Products for Road Fuel Tanker Monitoring 01 11 2011

### 1. HARDWARE: Vehicle GPS-GSM/GPRS MODULES



### **GuardMagic VB5**

Special GPS-GPRS vehicle module for fuel transportation companies (Road tanker monitoring). Multi tank support.

For On-Line Monitoring System (Vehicle fleet monitoring systems, AVL, fuel trailer monitoring etc.). Universal communication protocol. Easy to installation and easy to use.

- GSM 900/1800/1900 GPRS;
- Two main operation mode (Standard, Packet);
- Internal memory (130 TH records) for data storing;
- Immobilization function:
- Main fuel tanks monitoring function up to THREE tanks (GuardMagic DLLS1 sensor with digital communication interface EIA-485);
- Cargo fuel tanks monitoring function up to **ELEVEN** cargo tanks, cargo compartments (GuardMagic DLLS, GuardMagic DLLE with digital communication interface EIA-485):
- Temperature (and Humidity) monitoring function (up to SEVEN sensors):
- GPS monitoring (geographical location, speed);
- Driver ID transmitting;
- Status signal transmitting:

Crash, Panic, Event, Engine Overheat, Fuel Tank Empty (FTA), Attempt to Theft, Ignition, Car Alarm, GPS Alarm, Power Alarm.









- Two main operation mode (Standard, Packet);
- Internal memory (130 TH records) for data storing;
- Engine RPM monitoring;
- Immobilization function;
- Main fuel tanks monitoring function up to THREE tanks (GuardMagic DLLS1 sensor with digital communication interface EIA-485);
- Cargo fuel tanks monitoring function up to **ELEVEN** cargo tanks, cargo compartments (GuardMagic DLLS, GuardMagic DLLE sensor with digital communication interface EIA-485);
- two independent EIA-485 communication bus for fuel sensors (one for vehicle regular tanks, other for cargo tanks and advanced devices);
- temperature monitoring function (up to SEVEN sensors);
- GPS monitoring (geographical location, speed);
- Driver ID transmitting;

avl@guardmagic.lv ;

info1@guardmagic.com

ph.: +371 29142887; +371 29154768

Status signal transmitting:

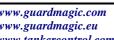
Crash, Panic, Event, Engine Overheat, Fuel Tank Empty (FTA), Attempt to Theft, Ignition, Car Alarm, GPS Alarm, Power Alarm.

-available connection to: "Trailer Identification module (GuardMagic TRIM)","Lid sensor controller", external fuel trailer controller, "data concentrator" etc.

#### Notes:

- Brief specification, see: "GPS-GPRS vehicle modules-Table".
- Prices, see: "GuardMagic-prices1-\_main products", point 1.2







# 2. HARDWARE: FUEL LEVEL SENSORS FOR FUEL CARGO TANKS (COMPARTMENTS)



# GuardMagic DLLS1ct Robust Digital Fuel and Oil level sensor for standard and heavy application

Mobile objects and stationary objects application: Road Fuel Tankers, Towboats, Fuel Storage etc. For connection to GuardMagic JBB01 (protective barrier junction box). No moving parts.

- Multi sensors system;
- Internal filter:
- Communication interface: EIA-485;
- Sensor serial connection;
- Operation liquids: crude, oil, fuel oil, transformer oil, diesel fuel, gasoline, kerosene;
- Ambient temperature: -40 ... +80;
- Temperature of measurement liquids: -40 ...+ 105;
- Resolution: 1024 or 4096 levels;
- Anti vandal casting aluminum cover (IK 10 protection);
- IP 67 protection;
- Strong mounting;
- One cable without connector. Cable length 3 meters;
- Available sensor length: 1300mm, 1500mm, 1700mm, 1980mm, 2500mm, 3000mm.



# Robust Explosive Proof Digital Fuel level sensor for standard and heavy application.

Operation only with GuardMagic JBB01 (intrinsically safe barrier).

Mobile objects and stationary objects application: Road Fuel Tankers, Fuel Storage etc. No moving parts.

- Multi sensors system;
- Communication interface: EIA-485;
- Operation liquids: oil, lube oil, transformer oil, fuel oil, diesel fuel, gasoline, kerosene;
- Ambient temperature: -40 ... +80;
- Temperature of measurement liquids: -40 ...+ 105;
- Resolution: 1024 or 4096 levels;
- Anti vandal casting aluminum cove (IK 10 protection);
- IP 67 protection;
- Strong mounting;
- Available sensor length: 1300mm, 1500mm, 1700mm, 1980mm, 2500mm, 3000mm.;

### Notes:

Prices, see: "GuardMagic-prices2- fuel sensors", point 1.2, point 1.4

# 3. HARDWARE: ADDITIONAL COMPONENT (for sensor connection in fuel trailer)



#### GuardMagic JBB01

Die-cast anti vandal IP 65 protected "**Junction Box**" with internal two channels intrinsically safe barriers.

For fuel level sensor intrinsically safe connecting to EIA-485 communication bus in fuel trailer (cargo tanks, fuel storage etc.).

Independently support two fuel level sensors.

EIA-485 communication bus.

Support GuardMagic DLLS, Guardmagic DLLE fuel level sensors.

## Notes:

Prices, see: "GuardMagic-prices2- fuel sensors", point 6.1





## 4. HARDWARE: FUEL LEVEL SENSORS FOR VEHICLE REGULAR FUEL TANKS MONITORING



# GuardMagic DLLS1a Robust Digital Fuel and Oil level sensor for standard and heavy application

Mobile objects and stationary objects application: Trucks, Road Fuel Tankers, Special Machinery, Locomotives, Towboats, Fuel Storage, DG, Power Transformers etc. No moving parts.

- Multi sensors system;
- Internal filter:
- Communication interface: EIA-485;
- Sensor serial connection;
- Operation liquids: crude, oil, fuel oil, transformer oil, diesel fuel, gasoline, kerosene;
- Ambient temperature: -40 ... +80;
- Temperature of measurement liquids: -40 ...+ 105;
- Resolution: 1024 or 4096 levels;
- Anti vandal casting aluminum cover ( IK 10 protection);
- IP 67 protection;
- Strong mounting;
- One cable with SuperSeal connector;
- Available sensor length: 300 mm 3000mm.



# GuardMagic DLLS1b Robust Digital Fuel and Oil level sensor for standard and heavy application

Mobile objects and stationary objects application: Trucks, Road Fuel Tankers, Special Machinery, Locomotives, Towboats, Fuel Storage, DG, Power Transformers etc. No moving parts.

- Multi sensors system;
- Internal filter:
- Communication interface: EIA-485;
- Sensor serial connection;
- Interface repeater;
- Operation liquids: crude, oil, fuel oil, transformer oil, diesel fuel, gasoline, kerosene;
- Ambient temperature: -40 ... +80;
- Temperature of measurement liquids: -40 ...+ 105;
- Resolution: 1024 or 4096 levels;
- Anti vandal casting aluminum cover (IK 10 protection);
- IP 67 protection;
- Strong mounting;
- Two cables with SuperSeal connector;
- Available sensor length: 300 mm 3000mm.

# Notes:

Prices, see: "GuardMagic-prices2-\_fuel sensors", point 1.1





## 5. MAIN TECHNOLOGICAL TOOLS



### **GuardMagic VB programming tool**

(Serial interface RS-232)

The technological complete set for programming and changes of adjustments of modules GuardMagic VB, by a personal computer.

(need only one)



# **GuardMagic DLLS-DLLE programming tool**

The technological complete set for sensor programming and changes of adjustments of GuardMagic DLLS, GuardMagic DLLE fuel level sensors by a personal computer.

Set consist of: GuardMagic SCA (sensor connection adapter), AC/DC power adapter, connection cables, technological software;

(need only one)

## 6. MONITORING SERVICE (SOFTWARE): VEHICLE GPS-GPRS MONITORING



# **GPS WEB monitoring service**

Coverage: All world

Service for vehicle WEB monitoring (vehicle monitoring via Internet). Vehicle modules series GuardMagic VB.

Visualization on maps, reports generation

