

GPS/Glonass-270 module

Technical description

Module description

The module was developed for operation in conjunction with GSM-alarm systems «TEC-8xx» or with climate control systems FanControl GSM. It allows to get information on vehicle geolocation. The module uses satellite navigation systems GPS and GLONASS.

The module is produced in two versions: 1) regular GPS/GLONASS-270 module, 2) hermetic GPS/GLONASS-270 module (waterproof). The hermetic version is allowed for installation outside a vehicle interior since it's moisture protection class is IP67. It is not allowed to disassemble the GPS/GLONASS-270 module (sealed).

GPS/GLONASS-270 module is shown in the figures 1 and 4, GPS/GLONASS-270 (hermetic)- in the figure 3.

Module inputs/outputs

! Module connector is located inside the module's plastic case (see figure 1).

The module pin assignment is described in table 1, pin numeration- figure 2.

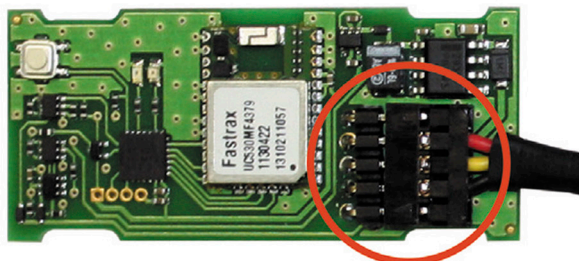


Figure 1. Module connector GPS/GLONASS-270



Figure 2. Connector pin numeration, view point from wires side.



Figure 3. GPS/GLONASS-270 (hermetic) overall appearance.



Figure 4. GPS/GLONASS-270 (regular) overall appearance.

Table 1. Typical module connector pin assignment

Nº	Color	Type	Assignment
1	–	–	–
2	Red	Power source	+12 V
3	Yellow	Data-bus	TP-BUS
4	Black	Power source	Ground
5	–	–	–

Pin №2. «Power source» can be connected to pin №10 of GSM -alarm «TEC-8xx» 18-pin connector or to pin №24 of FanControl GSM system. The wire can also be connected to a vehicle wire with non commutable +12V voltage.

Pin №3. «TP-BUS» Digital bus via which is established the connection between GPS/GLONASS-270 module and GSM alarm «TEC-8xx» or FanControl sytem. Is connected to pin №11 of GSM alarm 18-pin connector or to pin №13 of FanControl GSM.

Pin №4. «Ground». Can be connected to pin №9 of GSM alarm «TEC-8xx» 18 pin connector or to pin №12 of FanControl GSM. The connection can also be performed to the vehicle body at one of the places foreseen by the vehicle manufacturer for OEM electronic equipment connection to «Ground».

Module connection

1. Perform the vehicle identification procedure of GSM alarm «TEC-8xx» or climate control system FanControl GSM.
 2. Connect the «T-bus» wire to contact №11 of GSM alarm system 18-pin connector or to pin 13 of FanControl GSM.
 3. Supply power to the module.
- Module is ready for operation.

Module placement recommendations

The module is not very exacting to it's installation place due to consistant signal reception. However, keep in mind that the most reliable satellite signal reception zone is at the windshield. Position the module horizontally (see figure 5 and 6).

It is allowed to place the module under the plastic and rubber vehicle parts.



Figure 5. GPS/GLONASS-270 module installation



Figure 6. GPS/GLONASS-270 module installation (hermetic)

! If a car is equipped with heat reflective/sound-insulating windshield with wireless heating control-it interferes with satellite signal. It is recommended to use GPS/GLONASS-270 (hermetic) and install the module outside the vehicle interior in the engine compartment.

! For installation in the engine compartment is suitable GPS/GLONASS-270 module (hermetic).

Table 2. Technical specifications and terms of use.

Description	Value
Nominal supply voltage	9 ... 15
Maximum current consumption in operation mode, mA	40
Maximum current absorption stand-by mode, mA	0,5
Operating temperature range, °C	-40 ... +85
Storing temperature, °C	-40 ... +85
Maximum relative humidity, %	95

Table 3. SET

Name	Quantity, pcs
Main unit	1
Wire harness (is already connected)	1
Technical description	1
Package	1

Product warranty is 3 years from the moment of sale in case if installation instructions are strictly observed. If warranty case occurred, contact the organization which sold the product.