RS232. Connection of Garmin navigator

User Manual

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## Contents

Necessary Tools, Devices, Materials .................................................. 3  
General Information ........................................................................... 4  
Connection of Garmin Navigator......................................................... 5  
Exchange of Messages between the Dispatcher and the Driver .......... 7
Necessary Tools, Devices, Materials

To connect Galileosky tracking device (hereinafter – tracking device) one should have:

1. Electrical tools.
2. Original “Power/Data cable FMI15” cable of Garmin production.
RS232. Connection of Garmin navigator
(version 6 dated from August 8, 2018)

General Information

Galileosky devices (hereinafter – tracking device) have a function of operation with Garmin navigators (hereinafter - navigator) supporting FMI protocol. FMI (Fleet Management Interface) - is the interface of interaction of the Navigator with the traffic control vehicle monitoring system.

At such connection the Galileosky tracking device becomes a gateway which carries out exchange of information between the navigator and the monitoring server.

Original connecting cable Power/Data cable FMI15 of Garmin production provides the navigator with power supply and establishes connection between the navigator and the Galileosky tracking device via the RS232 interface.

Pic. 1
Garmin navigator package contents
Connection of Garmin Navigator

Connection of Garmin navigator to the Galileosky tracking device is to be made in accordance with the scheme of Picture 2 of this manual:

- Negative sides of the device and the navigator must be common;
- the yellow conductor of the interface cable is to be connected to the RX of the device;
- the white conductor of the interface cable is to be connected to the TX of the device;
- the brown conductor of the interface cable is to be connected to the negative side of power supply.

Galileosky device setting should be done in the Configurator program in the following order.

1. Go to the “Settings” tab -> “Digital inputs” and in the field RS232 select “Garmin navigator” (Pic. 3).
RS232. Connection of Garmin navigator
(version 6 dated from August 8, 2018)

After connection and power supply giving the screen of the navigator will look as shown in Picture 4 of this manual. Information on receipt of messages from the dispatcher is displayed in the right top corner of the navigator.

Pic. 4
Garmin navigator main window
Exchange of Messages between the Dispatcher and the Driver

Configuring and procedure of exchange of messages between the dispatcher and the driver by means of Galileosky device and the Garmin navigator is considered by the example of realization in the software product (hereinafter – monitoring software).

Go to the “Object properties” tab -> “Commands” and create the command of the following type (Pic. 5, Pic. 6):

- Send a message to the driver;
- Send the coordinates.

![Pic. 5](image)

Creation of commands
RS232. Connection of Garmin navigator  
(version 6 dated from August 8, 2018)

To send the message to the driver choose the object and specify the command (Pic. 7).

Text messages are sent by the “Send the message to the driver” command (Pic. 8). Images of the screen of the navigator during operating time with the messages are shown in pictures 9, 10, 11 of this manual.
RS232. Connection of Garmin navigator
(version 6 dated from August 8, 2018)

Monitoring software displays the message accepted from the driver in a separate window from which it is possible to correspond with the driver (Pic. 12).

Coordinates of a destination point are sent by “Send coordinates” command, with the possibility to specify the destination point on the map of monitoring software (Pic. 13).
Images of the screen of the navigator during operating time with messages about coordinates of the destination point are shown in pictures 14, 15, 16 of this manual.
Connection of the Garmin navigator to the Galileosky tracking device is completed, the device is ready for operation.

RSA “Galileosky”, LLC produces satellite monitoring equipment for GPS and GLONASS real time vehicles monitoring. The tracking devices determine the mobile object location recording the time and route as points with geographical coordinates and send the data to the server to be further processed and sent to the traffic controller panel.

In addition, a number of other vehicle parameters are recorded: the state of analog and discrete inputs of the tracking device and the state of digital interfaces.

The tracking devices can be used in any vehicle.