RS232. Connection of Trimble EZ-Guide 250/CFX-750

User Manual

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RS232. Connection of Trimble EZ-Guide 250/CFX-750
(version 6 dated from August 8, 2018)

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Necessary Tools, Devices, Materials

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

1. Electrical tools.
2. Set of connecting wires.
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General Information

Galileosky GPS v.1.8.5 and v.1.9 (hereinafter – tracking device) and other Galileosky tracking devices (for example, Galileosky v.2.3, v.2.5, v.5.0, v.5.1), starting with firmware version 230 and equipped with RS232 interface, enable to operate with the Trimble EZ-Guide 250/CFX-750 parallel driving systems (Pic. 1, hereinafter – the Trimble PDS), which are used for agricultural and other equipment. Galileosky tracking devices of versions Base Block and 7.0 can operate with Trimble PDS with any firmware version installed.

To improve coordinates accuracy the Trimble PDS uses differential corrections of GPS services, which are provided on a paid or gratuitous basis. It allows to improve accuracy of coordinates determination up to 15-20 cm. By the connection of the Trimble PDS, the Galileosky tracking device becomes a gateway server, which transmits refined coordinates and other monitoring data to the monitoring software.

Pic. 1
The Trimble EZ-Guide 250/CFX-750 parallel driving systems
Connection of Trimble PDS via RS232 Interface

There are different connecting cables that can be used for connection of Trimble PDS, produced by various manufacturers. For example, picture 2 shows a schematic image of connecting cable ZTN64045, equipped with all possible inputs including RS232 connectors.

It is necessary to connect RS232 connectors of the connecting cable in accordance with the scheme presented in Picture 3.

In case there is not a necessary connecting cable, for connection of Trimble PDS to Galileosky tracking devices you need to connect contacts 5(RX), 6(TX), 7(GND) P1 input with the corresponding contacts of the tracking device in accordance with the scheme, presented in Picture 3.
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Pic. 3
Connection schemes for Trimble-PDS to digital input RS232
ATTENTION! Grounds (GND) of the tracking device and Trimble PDS must be connected, RS232 contacts should be connected strictly according to the scheme: RX of the sensor to TX0 of the tracking device and TX of the sensor to RX0 of the tracking device. Power supply is provided separately.
Pre-Setting Trimble PDS

Setting Trimble PDS is carried out in accordance with Picture 4.
Setting Trimble PDS is performed in accordance with Picture 5:
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Setting Galileosky Tracking Devices to Work with Trimble PDS

Setting of the Galileosky tracking device is carried out via the «Configurator» software as follows:

1. connect the tracking device to PC via the mini-USB cable and launch the «Configurator» software;
2. go to «Settings» tab -> «Digital inputs» and choose «Trimble EZ-Guide 250/CFX-750» in the RS232 field (Pic. 6);
3. set the address of the monitoring server and main packet in accordance with recommendations of «The first connection of Galileosky tracking devices» User manual (it can be found in our site: Support -> User Manuals https://galileosky.com/podderzhka/dokumentaciya.html);
4. check the entry of messages and correctness of determined coordinates in the monitoring software (Pic. 7).

**ATTENTION!** Interface RS232[1] DOES NOT work together with Trimble PDS.

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**Pic. 6** Setting of RS232

**Pic. 7** Checking of messages in the monitoring software
Connection of the Trimble EZ-Guide 250/CFX-750 parallel driving system to the Galileosky tracking device is finished, the tracking device is ready to operate.

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.