



# **RS232. Connection of Tire Pressure Monitoring System PressurePro**

User Manual

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# Necessary Tools, Devices, Materials

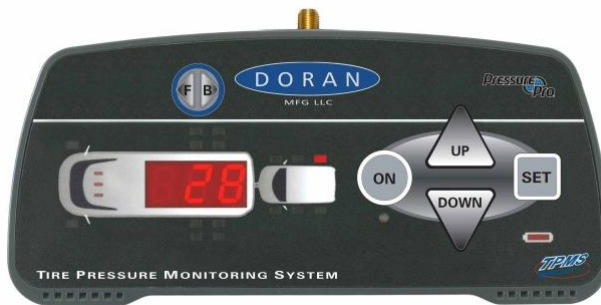
To connect Galileosky GLONASS/GPS tracking devices (hereinafter – tracking device) one should have:

1. Electrical tools.
2. Windows-based computer with the installed program of configuration of the tracking devices – "Configurator". You can download it here <https://galileosky.com/podderzhka/programmyi.html>
3. Set of PressurePro tire-pressure monitoring system.

# General Information

The Galileosky tracking devices (hereinafter – tracking device) can operate with PressurePro tire-pressure monitoring system (hereinafter – PressurePro TPMS). PressurePro TPMS is a wireless electronic control system composed of the following functional parts:

1. Monitor (Pic. 1) – the display to view the information about tire pressure. With the help of the monitor you can configure PressurePro TPMS.



Pic. 1  
PressurePro TPMS  
monitor

2. Pressure sensors (Pic. 2). Pressure sensor, which is screwed on the nipple of the wheels of the vehicle, transmits a coded radio signal to the monitor, located in the cabin of the vehicle. In case of deviation of pressure in any of the wheels from a specified base values - the display shows current pressure and the sound signal is heard.

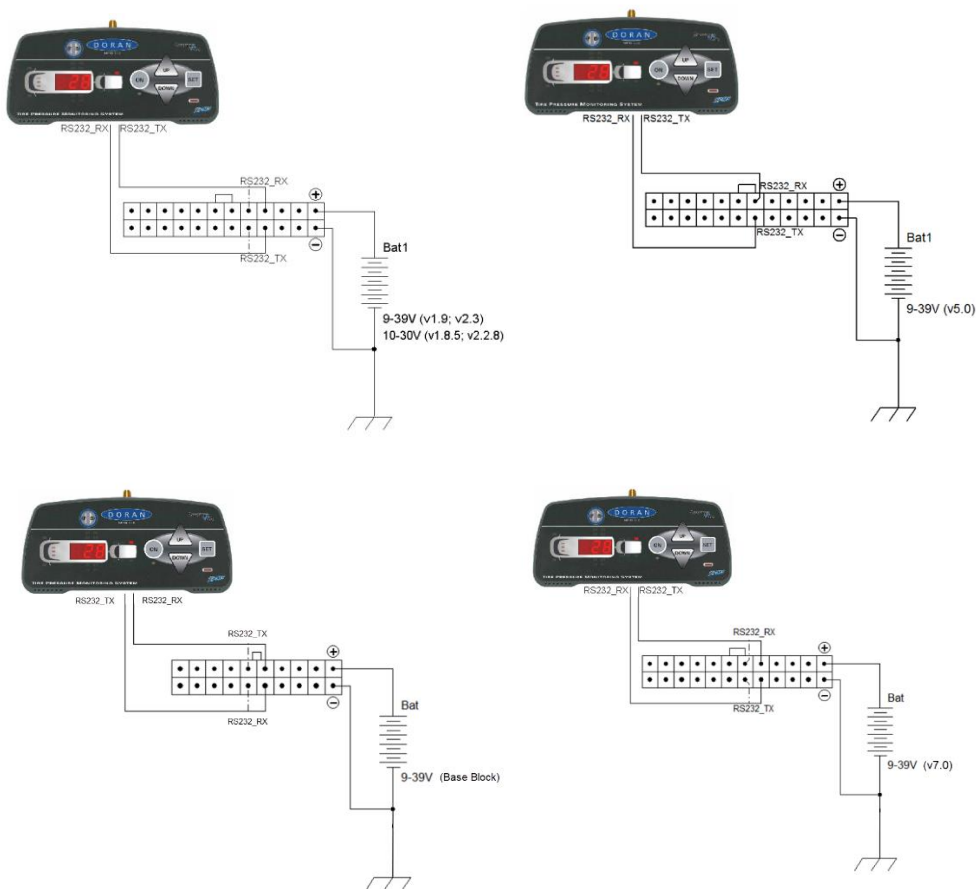


Pic. 2  
PressurePro pressure  
sensors

# PressurePro TPMS Connection

Connection of PressurePro TPMS to Galileosky tracking device is carried out in accordance with the scheme of Picture 3 of this manual.

**ATTENTION!** Grounds (GND) of the tracking device and PressurePro TPMS must be connected, RS232 contacts must be connected strictly according to the scheme: RX of PressurePro TPMS - TXD0 (1) of the tracking device and TX of PressurePro TPMS - RXD0(1) of the tracking device. PressurePro TPMS is powered separately.



Pic. 3

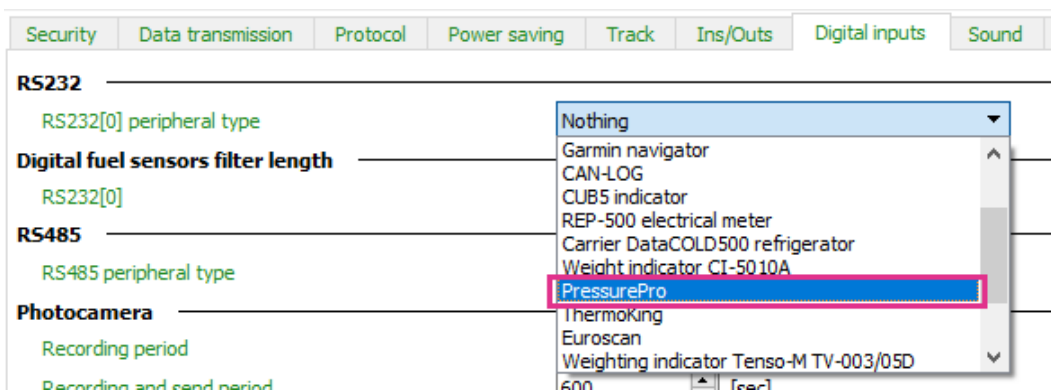
PressurePro TPMS connection scheme

# Configuring of the Tracking Device to Operate with PressurePro TPMS

Operation of the Galileosky tracking device with PressurePro TPMS is possible with the firmware not lower than the 201st version.

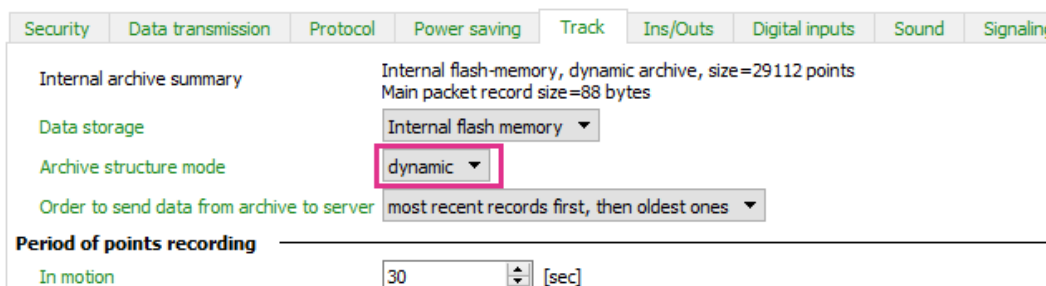
Settings of Galileosky tracking device are performed via the Configurator in the following order:

Go to the "Settings" tab -> "Digital inputs" and select "Pressure Pro" in the RS232 field (Pic.4).



Pic. 4  
Setting of RS232 input

Go to the "Settings" tab -> "Track" and select "Dynamic" in the "Internal archive structure" field (Pic. 5).



Pic. 5  
Setting the archive structure

**ATTENTION!** For tracking devices Galileosky Base Block and 7.0 versions the setting of dynamic structure mode is not needed.

Go to the "Settings" tab -> "Protocol" and tick the field "Main packet" in "PressurePro" line and press "Apply" button (Pic. 6).

## RS232. Connection of Tire-Pressure Monitoring System PressurePro

Security	Data transmission	Protocol	Power saving	Track	Ins/Outs	Digital inputs	Sound
Internal archive summary Internal flash-memory, dynamic archive, size=14972 points Main packet record size=152 bytes							
			Head packet	Main packet			
CAN32BITR9 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
CAN32BITR10 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
CAN32BITR11 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
CAN32BITR12 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
CAN32BITR13 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
CAN32BITR14 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
REP-500 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
Refrigerator (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
Driving style (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
PressurePro (dynamic archive only)			<input type="checkbox"/>	<input checked="" type="checkbox"/>			
DBG-S11D dosimeter (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
UserTag 0 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
UserTag 1 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
UserTag 2 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
UserTag 3 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			
UserTag 4 (dynamic archive only)			<input type="checkbox"/>	<input type="checkbox"/>			

Pic. 6

Setting of main packet

In normal state PressurePro TPMS data is transmitted to the monitoring server with a frequency once in 5 (five) minutes. In case if there is a sign of emergency transfer in PressurePro TPMS data, the Galileosky tracking device immediately begins data transmission to the monitoring server.

# Setting of Monitoring Software

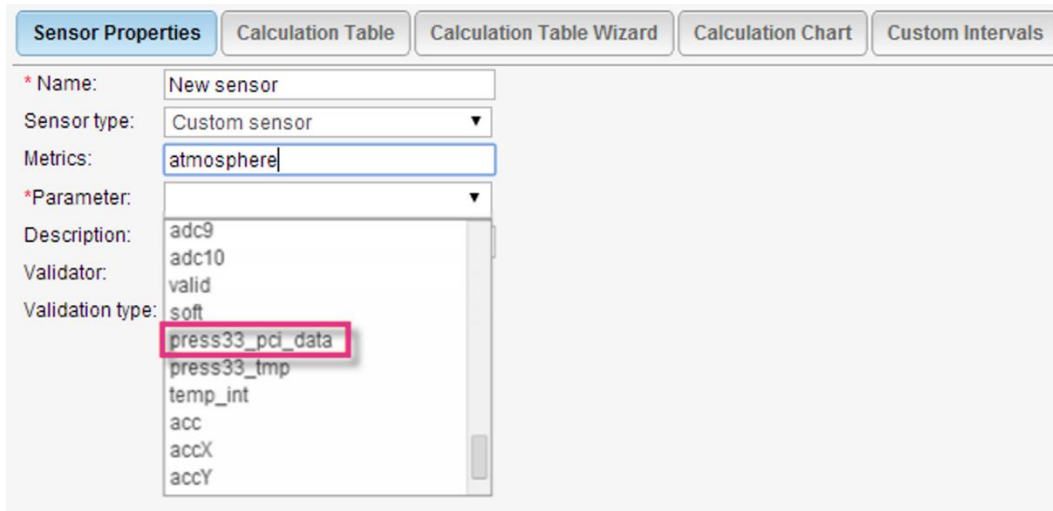
Start the monitoring software and make sure that PressurePro TPMS data are being sent to the program (Pic. 7).

```
0, adc11=0, adc2=0, adc12=0, adc3=0, adc13=0, adc4=0, adc14=0, adc9=0, can2=0, valid=0, soft=201, I/O=e000/3a01000f
adc11=0, adc2=0, adc12=0, adc3=0, adc13=0, adc4=0, adc14=0, adc9=0, can2=0, press1_pci_data=2.313564, press1_tmp=40, press1_status_error=0, valid=0, soft=201, I/O=e000/3a01000f
dc11=0, adc2=0, adc12=0, adc3=0, adc13=0, adc4=0, adc14=0, adc9=0, can2=0, valid=0, soft=201, I/O=e000/3a01000f
adc11=0, adc2=0, adc12=0, adc3=0, adc13=0, adc4=0, adc14=0, adc9=0, can2=0, press1_pci_data=2.313564, press1_tmp=40, press1_status_error=0, valid=0, soft=201, I/O=e000/3a01000f
, adc11=0, adc2=0, adc12=0, adc3=0, adc13=0, adc4=0, adc14=0, adc9=0, can2=0, valid=0, soft=201, I/O=e000/3a01000f
adc11=0, adc2=0, adc12=0, adc3=0, adc13=0, adc4=0, adc14=0, adc9=0, can2=0, press1_pci_data=2.313564, press1_tmp=40, press1_status_error=0, valid=0, soft=201, I/O=e000/3a01000f
. adc11=0, adc2=0, adc12=0, adc3=0, adc13=0, adc4=0, adc14=0, adc9=0, can2=0, valid=0, soft=201, I/O=e000/3a01000f
```

Pic. 7

Check of receipt of data

If necessary, create a pressure and (or) temperature sensor according to recommendations of the producer of the monitoring software (Pic. 8).



Pic. 8

Sensor creation in the monitoring software

Connection of PressurePro TPMS to the Galileosky tracking device is completed; 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.