Algorithm of Searching Failure of Wrong Information Transmission from Devices connected via RS232 Interface

The algorithm is shown by the example of digital FLS and monitoring server

1. Correct RS232 data are transmitted to the server (data from FLS are received in parameter adc9)
   \[adc9=3.506, \text{omni}\_\text{tmp\_0}_0=1\]

   - Start
   - Check the settings of the tracking unit protocol
     - Any mistakes? yes
       - Check whether parameter "RS232/9" or "RS232-3.3V, Temperature" are selected in Settings -> Protocol tab of Configurator software
     - Any mistakes? yes
       - Check if RS232 data are correct
         - Are the data displayed correctly? yes
       - Send a request to Technical Support team of the equipment manufacturer
         - Finish troubleshooting
   - Check if the device is connected to RS232 interface correctly
     - Any mistakes? yes
       - Check if RS232 data are correct
         - Are the data displayed correctly? yes
   - Check the settings of the connected device
     - Any mistakes? yes
       - Check if RS232 data are correct
         - Are the data displayed correctly? yes
   - Check the equipment integrity of RS232 interface of the tracking unit
     - Any mistakes? yes
       - Send a request to Technical Support team of the equipment manufacturer
         - Finish troubleshooting
     - No
   - Finish

2. Incorrect RS232 data are transmitted to the server (data from FLS are not received in parameter abc9 or there is no such parameter at all)
   \[adc9=0, \text{omni}\_\text{tmp\_0}_0=0\]

   - Start
   - Check the settings of the tracking unit protocol
     - Any mistakes? yes
       - Check if the device is connected to RS232 interface correctly
         - Any mistakes? yes
           - Check if RS232 data are correct
             - Are the data displayed correctly? yes
           - Send a request to Technical Support team of the equipment manufacturer
             - Finish troubleshooting
         - Any mistakes? no
           - Check if RS232 data are correct
             - Are the data displayed correctly? yes
         - Send a request to Technical Support team of the equipment manufacturer
           - Finish troubleshooting
     - Any mistakes? no
       - Check if RS232 data are correct
         - Are the data displayed correctly? yes
       - Send a request to Technical Support team of the equipment manufacturer
         - Finish troubleshooting
     - No
   - Finish