



TraQr™ Quickstart Guide

Thank you for purchasing a MaxQData™ MQGPS™ system. If you have any problems getting started, you can send email to Info@MaxQData.com or call 888-847-8439.

Mode Switch

The power switch on the side of the unit has three positions: OFF, NAV, and LOG. OFF turns the unit off. NAV enables NMEA data output via Bluetooth or USB for use by third party navigation software or by MaxQData Flight. LOG enables on the built-in logging function. Please note that when in NAV mode, the unit will go into standby when there is no Bluetooth connection, but in LOG mode the unit does not go into standby.

Battery Installation and Charging

Install the battery into the TraQr. All MQGPS models have a standard 5V Mini-USB charging port. This allows you to use the charger that comes with the MQGPS, or a USB sync cable, or a Pocket PC charger. Maximum charging time is about three hours. Charging status is indicated by the LED Power Status Indicator.

TraQr LED Status Indicators

LED Power Status Indicator (Red/Green):

- Solid Red: battery power is low, needs recharging
- Solid Green: battery is charging
- Blinking Green: battery is fully charged

LED Bluetooth status indicator (Blue):

- Solid Blue: Bluetooth not connected, or pairing initiated
- Flashes once per second: Bluetooth is connected
- Flashes once every five seconds: Standby mode
- Blue LED will be off in LOG mode unless there is an active Bluetooth connection.

LED GPS Status Indicator (Orange):

- Solid Orange: no satellite lock, searching for satellites
- Flashing: satellites locked

Step 1 – Software Download and Installation – Laptop/Desktop

Download the latest software from the MaxQData website. You will need the file labeled as “PC Complete System Software”, not the one labeled “PC Chart Only”. The name of the file will be similar to “MaxQData 31a PC Software.exe”. Download the file to your laptop and double-click on it to run it. When prompted, be sure to install the “TraQr Manager” application.

Next, download and install the USB driver software for the TraQr from the MaxQData website. Once the driver is installed, connect the TraQr to your PC and wait for the USB installation to complete. Then, go into the Device Manager (under Windows XP, this is Start > Settings > Control Panel > System > Hardware > Device Manager; under Windows Vista, this is Start > Control Panel > Device Manager). Expand “Ports (COM & LPT)” and look for “CP210x USB to UART Bridge Controller (COM21)”. The COM port name in parentheses, COM21 in this case, is the COM port used by the TraQr. Write it down for use in Step 2.

NOTE: If you do not see an entry under “Ports (COM & LPT)”, then it is likely that you either have not installed the drivers properly or they may need to be reinstalled. Unplug and replug the TraQr while watching the Device Manager list. You should see it come up under “Other”. The device will be shown with a question mark over the icon. Right click on the icon and select “Reinstall driver”.

You can also use a Pocket PC to download the data from the TraQr and review it. Simply install the “Pocket PC Complete System Software” onto your Pocket PC. The only way to extract data from the TraQr using a Pocket PC is via Bluetooth. You will therefore need to pair the unit with your Pocket PC. See the MQGPS Quickstart guide for pairing details.

Step 2 – Software Setup

Run MaxQData Setup and configure the software according to the following settings:

Settings > Serial Port Settings:

- “MQ Port” must be “NONE” (all caps).
- “Is Bluetooth” under “MQ Port” may be either checked or unchecked.
- “MQ Baud Rate” does not matter
- “Delay Bluetooth Init” should be unchecked.
- “GPS Port” must be set to the COM port you wrote down from Step 1. Please note: if your COM port is COM10 or above, you must enter it as (for example) \\.\COM10 .
- “Is Bluetooth” under “GPS Port” should be unchecked.
- “GPS Baud Rate” must be “115200”.
- “Enable \$GPRGH” must be checked.
- “GPS Hz” must be “5”.

Settings > MQ Module Configuration:

- “System type” must be “MQGPS”
- The “GPS” box must be checked.
- All other boxes must be unchecked.

Settings > Advanced:

- **The unlock code must be entered.** You must contact MaxQData by email or phone and provide the number in the grey box at the top of the screen (the “challenge code”) in order to receive your unlock code. If you do not enter this, you will have only 1 Hz sampling.
- “Racing type” should be set to the kind of racing you expect to be doing most often.
- “Log type 1 records only” must be unchecked.
- “Open before trigger” should be checked.
- “Debug mode” and “Log serial” should be unchecked.
- “MQ ticks/s” must be 1000.
- The remaining settings may be left at their defaults values.

Step 3 – TraQr Configuration

Plug the TraQr into the PC. Set the switch to LOG. Run the TraQr Manager software. Click on the Advanced tab. The default settings are the recommended settings for road racing (speed threshold 20 MPH, all other checkboxes clear). Click the “Erase Now” button. This will erase the TraQr and configure it to log at 5 Hz above 20 MPH. Wait for the erase cycle to finish and power off the TraQr.

Step 4 - Mounting

Mount the MQGPS where it can see as much of the sky as possible and is approximately parallel to the ground. The best location is on top of the car, on the roof, where nothing is blocking its view. Under the front or rear windshield are also acceptable locations as long as your car does not have infrared-reflecting glass. Still, these locations are not as good as a roof mount because the roof will block a big chunk of the sky. MaxQData has a magnetic roof mount cover available for the TraQr.

Step 5 – Trial Run

All you need to do after mounting the unit is flip the switch to “LOG”, wait for the orange light to flash indicating satellite lock, and then drive. Turn the unit off when the trial run is finished.

Step 5 – View Flight Recording on laptop/desktop

Connect the TraQr to your PC using the USB cable. Place the power switch in the “LOG” position. Run the MaxQData TraQr Manager application. Click the “Download” button. The software will extract the data from the TraQr. You will see MaxQData Flight run automatically to process the data. Wait for the download process to complete, including the erase and configure step. You should now see flight recording file(s) in the Save As location (default is to save to your Documents folder using the name RunXXX.mqd). Double-click on one of the flight recording files. MaxQData Chart will launch and automatically load the file for analysis. Note: you may wish to disable “Erase after download” in the TraQr Manager software under the Advanced tab until you are comfortable with the procedure.