

# Quickstart Guide

## Serial USB



This document will help you setup your sensor in less than a minute.

## Electrical Connections

Please follow these steps to connect your Bota Systems Serial USB sensor:

1. Correctly align, plug and tighten the **M8** connector of the included cable into the sensor.
2. Connect the cable's other side to the **USB** adapter.
3. Plug the **USB** adapter into a **USB port** on your computer.



USB to Serial  
adapter

Sensor Cable

The green LED shall stay dimmed after blinking for a short time.

## Mechanical Connections

Please comply with the following requirements to ensure your sensor's measurement quality:

- » Avoid mounting with non-rigid parts like 3D printed adapters.
- » Clean the mounting surfaces from any dirt and debris.
- » Do not under- or over-tighten the fasteners (see our **user manual**).
- » Fix the sensor cable safe and steady on your system such that it does not apply any force to the sensor.

## Software

Bota Systems provides a variety of options to communicate with a sensor in the form of libraries, applications or code snippets. They can be found at [gitlab.com/botasys](https://gitlab.com/botasys).

## Web App

The bota systems web app is convenient way to configure and visualize the sensor. To access it visit [app.botasys.com](https://app.botasys.com) with a chrome based browser.



## Data Log and Visualization

**Telemetry Viewer** offers a fast way to visualize and log sensor data. You can find the configuration and instructions on our gitlab page.

## Robot Operating System (ROS)

Bota Systems offers an extensive collection of ROS packages. These packages cover the following topics:

- » Sensor driver
- » Sensor description (URDF/Xacro)
- » Gravity and Inertia compensation



## Additional drivers

Additionally, Bota Systems offers drivers and scripts to configure and run the serial sensors for following languages and engineering softwares:

- » C++
- » Python
- » MATLAB® and Simulink®
- » LabVIEW

For more information, please refer to the [user manual](#).