

## Firmware input sample format

### Input data order:

The following serial data will be sent to firmware from software via serial communication as well in order to control the motor setup,

1. ESC inputs to control motor speeds
2. ESC calibration limits for safety purpose
3. No. of propeller blades used in current test in case required for RPM calculation

The input data to Arduino from software will be the following data in the corresponding order,

| Parameter                | Values to be sent   | Datatype | Size | Sample data |
|--------------------------|---|----------|------|-------------|
| No. of. Propeller blades | No. of propeller blades value set by user during powertrain setup in software | String   | 1    | 2           |
| Minimum PWM value        | Minimum ESC calibration value set by user during powertrain setup in software |          | 1    | 1000        |
| Maximum PWM value        | Maximum ESC calibration value set by user during powertrain setup in software |          | 1    | 2000        |
| User input PWM to ESC    | The latest PWM value (throttle value) set by user in the software for testing |          | 1    | 1300        |

Table 3. Data order in which data will be sent to firmware

Note:

- Each data has to be delimited by ','
- Data has to be sent in the same order as in the table

### An example of the data input:s

2,1000,2000,1100