

# MoonStalker messages

## Introduction

< start message delimiter  
> end message delimiter

## Control messages

### [Move](#)

#### Out message

<MV a,b>  
a = horizontal steps  
b = vertical steps

*Move the telescope in horizontal and vertical direction. While RDY message is not returned from Arduino, all move actions made by MoonStalker are blocked.*

## Status messages

### [Status](#)

#### Out message

<ST?>

*Get status of the telescope, if it is busy or ready. <RDY> or <NOT\_RDY> messages are returned from Arduino.*

### [Ready](#)

#### In message

<RDY>

*Ready message is returned from Arduino when telescope is ready for new command.*

## Not ready

In message

<NOT\_RDY>

*Not ready message is returned from Arduino when telescope is busy. All further requests from Moonstalker are blocked until <RDY> message is returned.*

## Battery

Out message

<BTRY?>

*Request to Arduino to return the battery voltage.*

## Battery result

In message

<BTRY voltage>

voltage = value of the current voltage of Telescope battery

*Reply from Arduino give information of current voltage of telescope battery.*

## Low battery

In message

<LOW\_BTRY>

*When battery voltage fall below LOW-THRESHOLD, this message is returned from Arduino. All further requests from Moonstalker are blocked. Charge the battery and reinitialize the telescope.*

## Fatal error

In message

<FATAL\_ERROR reason>

reason = String which includes the reason for the fatal error. **TODO**

*When something not expected happens on telescope, the reason for fatal error is returned from Arduino. All further requests from Moonstalker are blocked.*

## Altitude negative

In message

<ALT\_NEGATIVE>

*Define threshold for altitude. When is below the defined value, ALT\_NEGATIVE is reported. Lower ALTITUDE requests are ignored.*