**MoonLite High Resolution Stepper Motor**

**Serial Commands:** All commands are preceded by a “:” symbol and finished with a “#” symbol. “x” represents a hexadecimal digit.

|  |  |  |
| --- | --- | --- |
| **Command** | **Response** | **Description** |
| GP | XXXX | Get Current Motor 1 Positon, Unsigned Hexadecimal |
| GN | XXXX | Get the New Motor 1 Position, Unsigned Hexadecimal |
| GT | XXXX | Get the Current Temperature, Signed Hexadecimal |
| GD | XX | Get the Motor 1 speed, valid options are “02, 04, 08, 10, 20” |
| GH | XX | “FF” if half step is set, otherwise “00” |
| GI | XX | “01” if the motor is moving, otherwise “00” |
|  |  |  |
| GB | XX | The current RED Led Backlight value, Unsigned Hexadecimal |
| GV | XX | Code for current firmware version |
|  |  |  |
| SPxxxx |  | Set the Current Motor 1 Position, Unsigned Hexadecimal |
| SNxxxx |  | Set the New Motor 1 Position, Unsigned Hexadecimal |
| SF |  | Set Motor 1 to Full Step |
| SH |  | Set Motor 1 to Half Step |
| SDxx |  | Set the Motor 1 speed, valid options are “02, 04, 08, 10, 20” |
|  |  |  |
| FG |  | Start a Motor 1 move, moves the motor to the New Position. |
| FQ |  | Halt Motor 1 move, position is retained, motor is stopped. |

Example: To set a new position: :SN0537#

*For motor 2 all of the above commands are available, just precede the command with a “2”.*

Motor 2 Example: To set Motor 2 to a new position: :2SN0537#