Communication Protocol

To facilitate efficient and effective communication between the Arduino Uno and Daisy Seed devices, this protocol has been devised. Upon startup or a setting change of a pedal effect, the Daisy Seed will send a list of initialized or current parameters to the Uno so that the Uno may know what is currently being used and can perform operations to change settings and send this information back to the Daisy Seed.

This table defines what parameters will be sent in the communique when opening the menu for a pedal effect:

|  |  |
| --- | --- |
| P1\_XXX | Initial Value for Parameter 1 |
| P2\_XXX | Initial Value for Parameter 2 |
| P3\_XXX | Initial Value for Parameter 3 |
| MN1\_XXX | Minimum Value for Parameter 1 |
| MX1\_XXX | Maximum Value for Parameter 1 |
| MN2\_XXX | Minimum Value for Parameter 2 |
| MX2\_XXX | Maximum Value for Parameter 2 |
| MN3\_XXX | Minimum Value for Parameter 3 |
| MX3\_XXX | Maximum Value for Parameter 3 |

**\*\*Note:** Minimum and Maximum Value for Master Volume will always be 0 and 100 respectively and will not be sent because of this.

**Ex:**

Daisy Seed 🡪 “/P1\_XXX,P2\_XXX,P3\_XXX,MN1\_XXX,MX1\_XXX,

MN2\_XXX,MX2\_XXX,MN3\_XXX,MX3\_XXX;”

Arduino Uno 🡪 “/Received;” (For Error Handling Purposes)

Daisy Seed 🡪 “/1R;” (Upon setting change)

Arduino Uno Will perform calculations based on input (R = +1)

Arduino Uno 🡪 “/SET P1\_XXX;”