**Smart Hub Guide**

EEPROM Guide:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Addr**. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| **Val.** | Valid Cred? | SSID Len. | SSID | | | | Pass Len. | Password | | | | | B | W | Pos |
| **Ex.** | 7 | 4 | s | s | i | d | 5 | p | a | s | s | w | 95 | 100 | 20 |

* Address 0 represents whether or not the hub has valid network credentials stored
  + A value of 7 causes the hub to repeatedly try to connect to the network
  + Any other value causes the hub to enter setup mode
* Address 1 holds the amount of characters in the SSID (n)
* Addresses 2 🡪 n + 1 hold the SSID
* Address n+2 holds the amount of characters in the password (m)
* Addresses n+3 🡪 m+n+2 hold the password
* Address m+n+3 holds the current brightness of the lights (0-100%)
* Address m+n+4 holds the current warmth value of the lights (0-100%)
* Address m+n+5 holds the current position value of the shade (0-100%)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Addr**. | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 |
| **Val.** | DoW | Hour | Min. | Type | Par. 1 | Par. 2 | DoW | Hour | Min | Type | Par. 1 | Par. 2 | End |
| **Ex.** | N | 9 | 30 | L | 50 | 100 | S | 10 | 45 | S | 100 | 0 | X |
| **Type** | Char | Int | Int | Char | Int | Int | Char | Int | Int | Char | Int | Int | Char |

* Address 129 marks the start of scheduling data
  + Scheduled actions are stored as chunks of data 6 addresses wide
  + Address 129 marks the day of the week (encoded as a character)
    - N M T W R F A
  + Address 130 holds the hour (military time)
  + Address 131 hold the minute
  + Address 132 holds the device that the action is meant for (L or S – Lights or Shade)
  + Address 133 holds Parameter 1 (Brightness or Position)
  + Address 134 holds Parameter 2 (Warmth)
  + Addresses 135-140 hold the same info in the same order for a differently scheduled action
  + Pattern continues indefinitely until an X is stored in the address immediately following the last scheduled action

Indicator Light Guide:

|  |  |  |
| --- | --- | --- |
| **Red LED State** | **Green LED State** | **Device Status** |
| Off | Off | Powered Off |
| Solid | Off | On, broadcasting AP (setup mode) |
| Solid | Flashing | Attempting Connection to Home Network |
| Solid | Solid | Connected to Home Network |