

greenerthumb ICD

- Timestamps are 8-byte unix timestamps.
- Checksums are cyclic sums of all of a message's bytes excluding the checksum.
- Multi-byte fields are big-endian.

Air Status Message

| Byte | Name | Type |
|------|-------------|-------|
| 1 | ID (0x00) | Byte |
| 2 | Timestamp | Long |
| 10 | Temperature | Float |
| 14 | Checksum | Byte |

- Temperature is in degrees fahrenheit.

Soil Status Message

| Byte | Name | Type |
|------|-----------|-------|
| 1 | ID (0x01) | Byte |
| 2 | Timestamp | Long |
| 10 | Moisture | Float |
| 14 | Checksum | Byte |

- Moisture is the ratio of water to soil.

JSON

JSON is used for internal messaging. Every message has a corresponding JSON format with the structure:

```
{
  "name": <message_name>,
  "timestamp": <timestamp>,
  <name>: <value>, ...
}
```

IDs are swapped with names for friendlier use in applications. Checksums are excluded since the messages don't need to be sent over a network. Names

and values correspond to the non-ID, non-time, and non-checksum fields in the messages.