

Message Protocol

Initial draft of protocol

Maskable bitstring format, see individual bit designations below split onto multiple lines (<> represents one byte):

```
command (optional)          crc  stop
      ||                  ||    ||
    <>    <>    <> <> <>    <>    <>
      ||                  |
address    parameter value (optional)
```

Split out Command

Separated nibbles below

```
      1b get/set (1 = set, 0 = get)
          |
    ....      ....
    ||        |
4b unused    3b parameter
```

Parameters

Listing format just gives 3 bits to specify parameter type

... (set|get) - specific parameter

0. 000 (set) - address
1. 001 (get) - temperature
2. 010 (get|set) - current
3. 011 (get|set) - velocity
4. 100 (get|set) - position
5. 101 (get|set) - maximum current
6. 110 (get|set) - e stop behavior
7. 111 (get) - status register

Special Commands

Heartbeat

Requires no response, broadcasted to all connected devices with 11111111 address (address reserved for heartbeat)