

AGRO Programmer's Manual

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Terms

- AGRO -- AGRiculture Operation protocol

Specification

The default listening port is tcp/1337.

The default maximum communication size is 1024 bytes.

Commands are separated newlines, one per line. If a newline is not provided, the parser may not be able to parse your command.

Commands provide output on success unless specified otherwise.

Commands are sent in the format:

```
command args...
```

If a command is blocking, you will not be able to send commands during the blocking period, which may vary in length depending on the task.

If a given system is not powered on, it will not accept commands.

Authentication

Authentication is provided using a PIN system.

The default PIN is 1234.

Flag

There is a command to fetch/set a flag.

```
usage: flag [text]
```

Silo

Note: if the silo overflows, the service will power down for safety.

Status

Valid statuses: off, loading, unloading, idle

```
usage: status
```

Contents

Returns the current content type for the silo, one of: corn, salt, grain, soybeans

If an argument provided, sets the contents type.

usage: contents [type]

Supply levels

Supply levels in bushels.

usage: supply [load|unload n]

EXAMPLES

To load the next batch of supplies:

```
supply load 5
```

To unload the current supply batch:

```
supply unload 3
```

Heat

The n value of incrementation is in degrees Celsius.

usage: heat [raise|lower n]

Humidity

The n value of incrementation is in %.

usage: humidity [raise|lower n]

PIN

Command to set device PIN.

usage: pin XXXX

Lights

Toggle the lights to a given state, or, do nothing if in that state. No argument will output the current state.

usage: lights [on|off]

EXAMPLES

To turn the lights on:

```
lights on
```

Tractor

Harvest

usage: harvest [start|stop]

Power

usage: power [on|off]

Status

Valid statuses are: off, idle, unloading, loading, harvesting

usage: status

EXAMPLES

To check the status:

```
status
```

Contents

Returns the current content type for the silo, one of: corn, salt, grain, soybeans

If an argument provided, sets the contents type.

usage: contents [type]

Oil

The percent value of oil quality remaining.

usage: oil [add]

Tires control

No argument will output the status of the tires in pressure PSI.

usage: tires [inflate|deflate]

Heat

The n value of incrementation is in degrees Celsius.

usage: heat [raise|lower n]

Humidity

The n value of incrementation is in %.

usage: humidity [raise|lower n]

Fuel stores

usage: fuel [add]

PIN

Command to set device PIN.

usage: pin XXXX

Lights

Toggle the lights to a given state, or, do nothing if in that state. No argument will output the current state.

usage: lights [on|off]

EXAMPLES

To turn the lights on:

```
lights on
```

Usage

You can use telnet(1) to connect to a listening system.

To toggle the lights state on the device, write:

```
lights on
```

A full command in bash(1) could look something like:

```
echo "lights on" | nc 192.168.0.101 1337
```