

## Application Note – Dungs MPA4112 automatic burner controller

### Dungs MPA4112 Automatic Burner Controller

#### Set up

To remove outer case, undo two screws and pull very hard.

Dipswitches are inside the cover on the PCB section, undo three star screws to release.

Modbus settings are:

- |   |     |
|---|-----|
| 1 | On  |
| 2 | Off |
| 3 | Off |
| 4 | On  |

#### Default Password

First byte C E8, second byte C 04

#### Wiring

**Connector is an M12 B Coded, one male, one female 5 pin but a 4 pin will do.**

The following is for the pin connector on the MPA base.

- |        |        |                                  |
|--------|--------|----------------------------------|
| 1      | Brown  | +5V for bus termination - Output |
| 2      | White  | A-                               |
| 3      | Blue   | 0V                               |
| 4      | Black  | B+                               |
| 5      | Grey   | Not connected                    |
| Thread | Shield | – connect to earth.              |

Connect	2(A-) to V1040 B
	4(B+) to V1040 A

Note this is not normal! We are actually connecting minus to minus and plus to plus, Unitronics call A plus whereas Dungs call A minus. Hence we connect A-B and B-A.

#### Communications

Default

Modbus address 1, RTU

Comms 19200, 8, E, 1

#### Modbus functions

Write Holding Registers (16) can be used to set register 0, this is the only one that can be written.

Read Holding Registers (3) can be used to read registers 0-31.

#### Manual

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