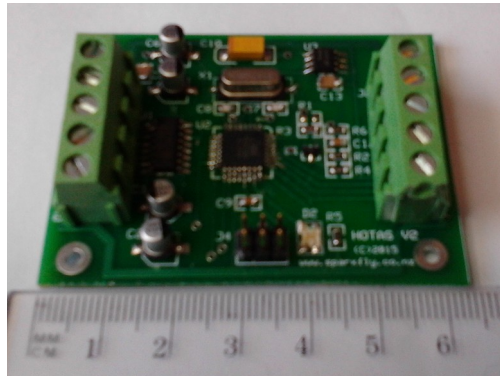


## HOTAS controller for MGL V6 and V10 VHF transceivers

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V1.0

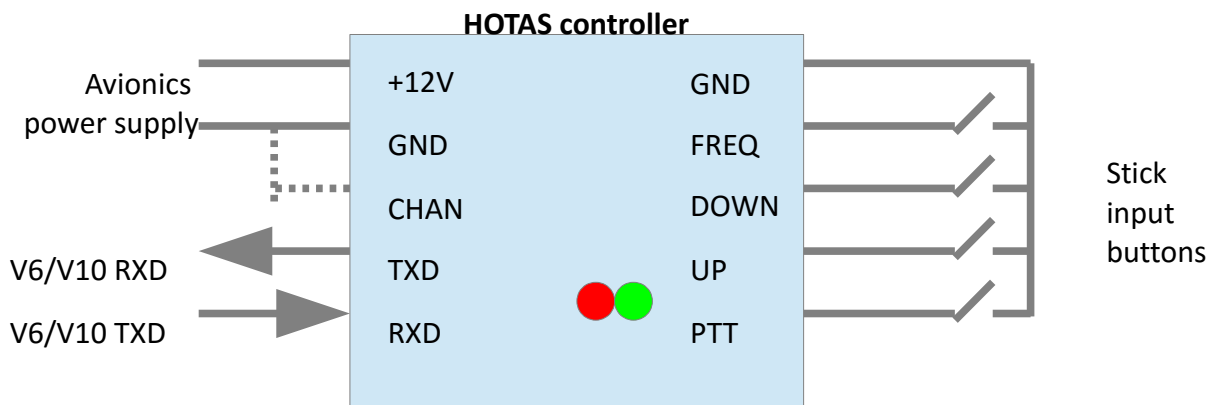


### Introduction

The HOTAS controller provides remote control of an MGL VHF radio via 4 input switches, allowing pilots to remain in control of their aircraft with hands on throttle and stick (HOTAS). It is primarily intended for helicopters, but can be used in any aircraft with a multifunction control stick.

The unit has been tested on V6 hardware running V1702158- but see text later regarding a bug in the radio when setting frequencies.

### Connections



### Operation

The controller responds to short and long key presses in different ways, A **short press** is less than about 1 second.

A **long press** is more than about 3 seconds.

#### PTT input

Press and hold to activate transmit mode on the the transceiver.

You do not need to wire PTT directly into the transceiver.

#### UP input

In **normal** mode a short press increments the receive volume.

In **frequency** mode a short press increments the standby MHz or kHz frequency setting.

In **channel** mode a short press increments the standby channel selection.

Auto-repeats on a long press.

#### DOWN input

In **normal** mode a short press decrements the receive volume.

In **frequency** mode a short press decrements the standby MHz or kHz frequency setting.

In **channel** mode a short press decrements the standby channel selection.

Auto-repeats on a long press.

#### FREQ input

In **normal** mode, a short press will swap active and standby frequencies.

In **frequency** mode, a short press will switch between MHz and kHz frequency setting.

In **channel** mode, a short press does nothing.

A long press switches between **normal** and **frequency/channel** (depending on /CHAN link) modes.

#### **GREEN LED**

Flashes during input and serial communications activity.

#### **RED LED**

On while in **frequency/channel** mode.

#### **CHAN link**

Leave unconnected for **frequency** mode selection.

Jumper to GND terminal for **channel** mode selection from stored channels..

### **Usage Examples**

#### **Transmitting**

- Press and hold PTT while transmitting

#### **Adjusting volume**

- Short press the UP key to increment in steps.
- Long press the UP key to ramp volume up.
- Short press the DOWN key to decrement in steps.
- Long press the DOWN key to ramp volume down.

#### **Swapping Active and Standby frequencies**

- Short press the FREQ key.
- The swap occurs on release of the key.

#### **Setting Standby frequency (/CHAN link unconnected)**

- Long press the FREQ key to enter frequency set mode (RED led on)
  - Short press the FREQ key to switch between MHz and kHz setting.
  - Short press the UP key to increment in steps.
  - Long press the UP key to ramp frequency up.
  - Short press the DOWN key to decrement in steps.
  - Long press the DOWN key to ramp frequency down.
- Long press the FREQ key to exit frequency set mode (RED led off)

*Note- V6 version 1702158 has a bug when increasing MHz frequency. Use the DOWN key to select MHz- it will wrap around from 108 MHz back up to 136MHz.*

#### **Selecting Standby channel (/CHAN link grounded)**

- Long press the FREQ key to enter channel select mode (RED led on)
  - Short press the UP key to increment in steps.
  - Long press the UP key to ramp channel up.
  - Short press the DOWN key to decrement in steps.
  - Long press the DOWN key to ramp channel down.
- Long press the FREQ key to exit channel select mode (RED led off)

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