

# Tasman Instruments

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Tasman Instruments

33 the Crescent

Victoria 3160

Australia

E mail: [malc@tasmaninstruments.com.au](mailto:malc@tasmaninstruments.com.au)

tel +613 9754 7211

fax +6139 752 5002

[www.tasmaninstruments.com.au](http://www.tasmaninstruments.com.au)



## PK312 Vario battery backup

This device will supply the Tasman V1000 variometer with automatic battery power backup in the event of failure of the main supply. It can provide a “get home” fail safe facility or simply allow the continuation of a flight that might otherwise be lost.

It operates by sampling the load current and switches to the best power source by a latching relay. No standby power is consumed by the PK312.

A new battery should supply the V1000 with at least 12 hours of flying time. To extend battery life, reduce the volume setting to the minimum useable setting and consider turning off sink tones (see operations manual). The vario will limit the available volume setting range as the battery voltage reduces. Monitor the battery voltage when the vario is quiet, with the voltmeter function (both buttons down).

The pre flight check should include a backup battery voltage test. Remove main power from the vario, ie. switch off the main glider battery with the vario switched on. Wait for a few seconds for the reading to settle, use the vario voltmeter function to read the backup batter voltage. If the voltage is much below 8.2 volts then less than 50% of the battery power is left and the battery should be replaced.

Note: For optimal operation the Variometer should have software version 3.1 or higher. Serial number 060519 or higher. Please consult Tasman Instruments or agents.

### **POWER**

The 9v alkaline battery is retained by a premium quality battery clip. Polarity is indicated on the clip moulding and an audio alarm sounds if reversed.

Remember to change the battery annually and mark the battery with the date installed.

### **MOUNTING**

The PK312 can be fixed to a smooth clean surface (use a solvent such as methylated spirit to clean), by double sided tape on the underside of the enclosure, or through a modified 57mm panel cutout, or with fasteners by the enclosure tabs, nylon ties etc.

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## **CONNECTIONS**

The standard power cable is installed to the narrow PK312 socket and the cable provided connects to the vario power socket (the narrow one). Ensure the correct connector on the vario is used as damage will occur if not.

Refer to the vario installation guide or see diagram below.

This device is for recreational use only.

