

Tasman Instruments

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PK312 Variometer battery backup

This device will supply the Tasman Variometers 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 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). Monitor the battery voltage with the Variometer 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 variometer switched on. Wait for a few seconds for the reading to settle, use the 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 Tasman Instruments Variometers with self power down after some time not flying

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.

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). Refer to the vario installation guide or see diagram below.

This device is for recreational use only.

Installation for VRM10 Variometer.

