

## Mk10B-S geolocator logger specification



Logger records essential dawn, dusk light transitions for geolocation purposes.

**Dimensions:** 17x9x6mm excluding pins and stalk (length and angle user specified: angle at 15 or 30 degrees, 5 < length < 30mm).

**Weight:** 1.2g in air (includes battery, package and stalk).

**Power source:** projected life of internal battery 1-2yrs for from time of manufacture under normal use. Note that logging uses up 15% more power than sleep.

**Maximum number of records:** depends on activity. Data from albatross indicates lifetime geolocation recording memory.

**Logging duration:** continuous from start until memory full.

**Logging interval:** light resolution is 5mins. Light is sampled every minute with maximum during 5mins recorded.

**Download time per year logged:** approx 20mins.

**Data retention:** 20years (user will not be able to extract data after battery has died; possible data extraction by manufacturer in this case).

**Clock drift:** better than 1min/month. With start time, drift can be corrected in post processing. Field results show practical drift of approx 3minutes per year.

**Minimum temperature:** -15°C.

(TEMPERATURES BELOW THIS VALUE MAY RESULT IN THE LOGGER BECOMING PERMANENTLY DAMAGED.)

**Depth rating:** >10m.

**Interface:** small interface box connects between logger and USB. Terminal emulator or Communicate program (part of BASTrak software) on host computer runs download and deployment start routine.

**Software:** data decompression software (Decompressor), sunrise/sunset transition visualisation tool (TransEdit) and transition to location calculator (Locator) is supplied with the interface box. Included is utility to find altitude angle of the sun given location and time, for calibration procedure.

<http://www.birdtracker.co.uk>

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