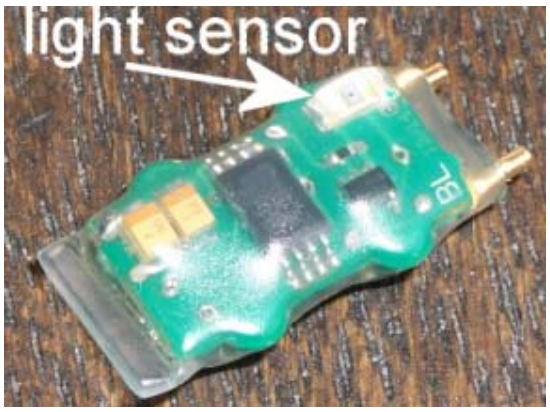
Mk10 geolocator logger specification v1



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

Dimensions: *17x9x6mm excluding pins.*
Weight: *1.0g in air (includes battery and package).*
Power source: *projected life of internal battery 1.5yrs for from time of manufacture under normal use. Note that logging uses up only 15% more power than sleep.*
Maximum number of records: *depends on activity. Data from albatross indicates lifetime geolocation recording memory.*
Logging duration: c*ontinuous from start until memory full.*
Logging interval: *light resolution is 10mins. Light is sampled every minute with maximum during 10mins recorded.*
Download time per year logged: a*pprox 20mins.*
Data retention: 2*0years (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 a typical drift of less than 5minutes per year.*
Minimum temperature: *-10'C.*
(TEMPERATURES BELOW THIS VALUE MAY RESULT IN THE LOGGER BECOMING PERMANENTLY DAMAGED.)
Depth rating: *>10m.*

Interface: s*mall interface box connects between logger and RS232 port (use USB to RS232 converter if necessary). Terminal emulator (Hyperterminal suggested for Windows PC) on host computer runs download and deployment start routine.*

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

It is strongly recommended that a record of the time and date of the start of logging be stored to determine clock drift after download. Without this, data cannot be extracted from a dead logger.

http://www.birdtracker.co.uk

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