

Light101A Ambient Light Data Logger

The Light101A data logger is specifically engineered to record photoperiods, tracking the duration and occurrence of light being on or off. This makes it an essential tool for studies requiring precise measurements of light cycles, such as plant growth research, animal behavior studies, and controlling light exposure in controlled environment facilities.

Ideal for use in a variety of settings, the Light101A offers an efficient alternative to manual recording, providing reliable and automatic documentation of light cycles.

Featuring a compact design, the Light101A supports a programmable reading rate, boasts a long battery life of up to 3 years, and can store more than 400,000 state changes.

The MadgeTech Data Logger Software enhances the functionality of the Light101A by facilitating easy device configuration, data download, and comprehensive analysis through graphical displays and customized reports, ensuring detailed and accurate monitoring of photoperiods.



FEATURES

- 3 Year Battery Life
- Simple Photoperiod Records
- · Create automatic documentation of light cycles
- 465,578 Reading Storage Capacity

BENEFITS

- Long-Term Field Deployment
- Simple Setup and Installation
- Minimal Long-Term Maintenance

8 **APPLICATIONS**

- Animal Behavior Studies
- Agricultural Studies
- Building Management
- Horticulture
- Zoology
- Museum & Gallery Light Studies



MadgeTech 4 Software Features



Multiple graph overlay

Lethality equations (F0, PU)

Digital calibration

Zoom in/ zoom out

Statistics





- Mean Kinetic Temperature Full time zone support
- Data annotation
- Min./Max./Average lines
- · Summary view

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Specifications

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call **(603) 456-2011** or go to **madgetech.com** for details.

| LIGHT | | | Green LED Blinks:10 seconds to indicate logging and 15 seconds to indicate Delay or |
|---|--|-----------------------------------|---|
| Sensor Type | Digital | LED Functionality | Manual Start Mode - Standby (waiting to start) Red LED Blinks: 10 seconds to indicate low |
| Input is sampled only at time of reading rate. State change between reading rates is undetectable. State is recorded only if changes at input since last reading. | | LEDs | battery and/or full memory 2 status LEDs |
| GENERAL | | Calibration | Digital calibration through software |
| Start Modes | Immediate start Delay start up to 18 months | Calibration Date | Automatically recorded within device |
| | Multiple pushbutton start/stop | Battery Type | 3.6 V lithium battery included; user replaceable |
| Stop Modes | Manual through software Timed (specific date and time) | Battery Life | 3 years typical, dependent upon frequency |
| Multiple Start/Sto Mode | P Start and stop the device multiple times without having to download data or communicate with a PC | Time Accuracy | and duty cycle ±1 minute/month at 25 °C (77 °F) (Stand alone mode) |
| Real Time Record | Ing May be used with PC to monitor and record data in real time | Computer Interface | USB (interface cable required); 115,200 baud |
| | An optional password may be programmed | Operating System Compatibility | Windows XP SP3 or later |
| Password Protect | | Software Compatibility | Standard Software version 4.2.25.16 or later Secure Software version 4.2.24.16 or later |
| Memory | 465,578 readings; software configurable memory wrap | Operating Environment | -40 °C to +80 °C (-40 °F to +176 °F) 0 %RH to 95 %RH non-condensing |
| Wrap Around | Yes | Dimensions | 1.4 in x 2.1 in x 0.6 in |
| Reading Rate | 1 reading every 1 second up to 1 reading every 24 hours | Weight | (35 mm x 54 mm x 15 mm) 0.8 oz (24 g) |
| | Native measurement units can be scaled to display measurement units of another type such as on/off, open/closed and more | Material | Polycarbonate |
| Engineering Units | | Approvals | CE |

BATTERY WARNING: Fire, explosion and severe burn hazard. Do not recharge, disassemble, heat above 100 °C (212 °F), incinerate, crush, or expose contents to water.

Ordering Information

| Light101A | PN 902458-00 | Ambient Light Data Logger |
|--|--------------|---------------------------------------|
| IFC200 | PN 900298-00 | USB interface cable |
| LTC-7PN PN 900352-00 Replacement battery for the Light101A | | Replacement battery for the Light101A |

For Quantity Discounts call (603) 456-2011 or email sales@madgetech.com