



## BL-01 Sunshine recorder

### Technical Specifications

Measures sunshine hours

Onboard GPS

Analog and digital output

Non-moving parts

The Blake-Larsen Sun Recorder is a simple and unique sensor to determine sunshine duration. It detects sunshine duration as the human eye would do by its design and measuring principle. In contrast with present methods, it even determines sunshine duration with dusk and dawn.

The Blake-Larsen Sun Recorder is unique! Sunshine is determined by mimicking the way a human would determine whether the sun shines. Light, reflected by the dome, passes through a special filter unto the LUX-sensor. A scientifically deduced algorithm then determines whether the sun is shining or not. Research and thorough testing ensured our method confines with the WMO standard.

The Blake-Larsen Sunshine Recorder is a smart sensor to measure sunshine duration with high accuracy (uncertainty 0.3 hours per day). The sensor is easy to install, can be applied globally and used for many applications.

|  | BL-01  |
|--|--|
| ISO 9060:2018                                | -  |
| Output                                       | 5V/1V, 20mA/4mA and open drain switch            |
| Directional response at 1000W/m <sup>2</sup> | -  |
| Temperature response -20°C to 50°C           | -  |
| Non-linearity at 1000W/m <sup>2</sup>        | -  |
| Operating temperature range                  | -20 - 50 °C                                      |
| Wavelength range                             | 300 - 800 nm (50% points)                        |
| Power supply                                 | 12-30  |
| Dimensions mm                                | 160x100x83 / Ø83x74 mm                           |
| Weight                                       | 0.8 kg   |
| Ingress protection IP                        | 65   |
| Power consumption                            | < 0.5 W  |
| Cable length                                 | 10 m   |
| Geographic application                       | Latitude (-90° to 90° ) / Longitude (0° to 360°) |

Specifications are subject to change without further notice.