



## AeroX Light

### Runway Light Intensity Monitor (RLIM)



# Designed for Campbell Scientific Automated Weather Observing Systems

Monitors up to four runways

## Overview

The AeroX™ Light is a runway light intensity monitor (RLIM) designed specifically for Campbell Scientific automated weather observing systems (AWOS). The AeroX Light can monitor up to four runways that have two lighting loops per runway. Airports with more runways require additional AeroX Light RLIMs.

The AeroX Light consists of an enclosure that houses a CR1000X Measurement and Control Datalogger, AC power protection devices, and a power supply. Campbell Scientific offers power options to handle voltages up to 260 Vac and provide battery backup.

## Benefits and Features

- › Capable of monitoring edge and center lighting loops of four runways for a total of eight lighting loops
- › Reports battery voltage and errors such as AC power failure, protection circuit fault, and low battery
- › Controlled by clamp-on, current-calibration software
- › TCP/IP communications with Campbell Aero server
- › Lockable, poly-fiber enclosure

## Detailed Description

The AeroX Light determines runway light intensity by measuring the current in the lighting loop using clamp-on current transducers. Each current transducer outputs 4 to 20 mA of current proportional to the amount of current in the lighting loop. Typically, edge and center lighting loops are on each airport runway. The lights can be LED or incandescent.

Designed to integrate seamlessly with Campbell Aero™ software, the AeroX Light monitors the current and sends the calibrated current data to the Campbell Aero server for interpretation. The Aero server polls the AeroX Light when the data is required.

## Specifications

|                 |                             |                          |               |
|-----------------|-----------------------------|--------------------------|---------------|
| Light Monitored | › LED (up to 6.6 A)         | AC Input Range           | 85 to 264 Vac |
|                 | › Incandescent (up to 20 A) | Short-term Input Voltage | 300 Vac       |

|                              |  |
|------------------------------|--|
| Maximum AC Input Current 2 A |  |
| AC Frequency Range           | 45 to 65 Hz  |
| Inrush Surge Current         | < 15 A (typical)                                     |
| Backup Battery               | Maintains power to RLIM for a minimum of four hours. |
| Operating Temperature Range  | -40 to +85°C   |

|                                  |  |
|----------------------------------|--|
| Mean Time Between Failure (MTBF) | > 500,000 h in accordance with IEC 61709 (SN 29500)            |
| Transient Protection             | Pluggable, no-fuse, fail-safe surge-suppression device         |
| Compliance Information           | All components meet UL, CE, and CSA power safety requirements. |
| Case Dimensions                  | 46 x 51 x 30 cm (18 x 20 x 12 in.)                             |
| Weight                           | 14 kg (30 lb)  |

For comprehensive details, visit: [www.campbellsci.com/aerox-light](http://www.campbellsci.com/aerox-light) 



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