



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.

Learn more about our [CampbellAero™ Automated Weather Observing System \(AWOS\) Solution](#) and our [CampbellAero Software](#).

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 CampbellAero™ 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 CampbellAero software, the AeroX Light monitors the current and sends the calibrated current data to the CampbellAero server for interpretation. The CampbellAero server polls the AeroX Light when the data is required.

Specifications

Light Monitored	› LED (up to 6.6 A) › Incandescent (up to 20 A)
AC Input Range	85 to 264 Vac
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 