



Audible and Visual Alarms

For use with lightning warning system

Overview

The RA100 Remote Strobe and Siren Alarm provides visual and audible signals of alarm or status conditions. The red, amber, and blue strobes are SAE Class II LED beacons with a 100,000 hour rated lifetime and an average current drain of 0.26 A at 12.8 Vdc. The 120 dB siren has a current draw of 0.62 A at 12

Vdc, but is typically on 3 s out of 120 s, allowing the average current drain to be less than 0.02 A. The strobes and siren are mounted to 58 in. aluminum tubing that has a painted irridite and black powder coating for looks and durability.

Benefits and Features

- › SAE Class II LED beacons with 100,000 hour rated lifetime
- › 120 dB siren
- › Low power consumption
- › Rugged construction
- › Easily powered and controlled by a Campbell Scientific datalogger and the SDM-CD8S 8-Channel Solid-State DC Controller
- › Includes two stainless-steel brackets for mounting to a flat surface
- › Optional pole-mount kit allows mounting to a pole with a 1.5 to 4 in. outside diameter
- › Optional 3.3 ft extension allows mounting to a parapet wall

Detailed Description

While the RA100 is typically part of the LW110 Lightning Warning System or the RA110 Remote Alarm System, it can be purchased as a stand-alone item for many applications. It is

easily powered and controlled by a Campbell Scientific datalogger and the SDM-CD8S 8-Channel Solid-State DC Controller.

Specifications

LED Beacons

Rated Lifetime	100,000 h
Colors	Red, amber, blue
Current Drain	› 0.65 A (peak) @ 12.8 Vdc › 0.26 A (average) @ 12.8 Vdc
Diameter	14 cm (5.5 in.)
Height	16.3 cm (6.4 in.)

Siren

Sound Output	120 dBA
Operating Temperature Range	-20° to +65°C (-4° to +149°F)
Operating Voltage	4.8 to 14.4 Vdc
Current Drain	› 0.62 A (maximum) › 0.02 A (average)

Pole

Material	Aluminum tubing with irridite and black powder coating
Dimensions	1.5 m x 7.6 cm x 3.8 cm (4.8 ft x 3.0 in. x 1.5 in.)

LED Backplate

Material	Aluminum
Dimensions	19.1 x 30.5 x 30.5 cm (7.5 x 12 x 12 in.)

Siren Backplate

Material	Aluminum
Dimensions	12.7 x 12.7 x 0.5 cm (5 x 5 x 0.2 in.)

Mounting Bracket for Mounting to Flat Surface

Material	12 gage stainless steel
Dimensions	13.9 x 4.0 x 3.2 cm (5.5 x 1.6 x 1.3 in.)

Extension Pole

Material	Aluminum tubing with irridite and black powder coating
Wind Load	233.4 kph (145 mph) wind gust or 180.3 kph (112 mph) steady winds with a safety factor of 1.25

Assumes 158.8 kg (350 lb) pullout strength of the customer-supplied 0.635-cm (0.25-in.) expansion bolts, the top mounting bracket installed just below the joint, and the bottom mounting bracket mounted at least 0.61 m (2 ft) below the top bracket.

Dimensions	1.15 m x 7.6 cm x 3.8 cm (3.5 ft x 3.0 in. x 1.5 in.)
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For comprehensive details, visit: www.campbellsci.com.au/ra100

