AI-500-070 School Beacon
Timer Switch and Cellular Modem

Overview

The AI-500-070 provides a cost-effective, easy-to-integrate means of adding remote monitoring and control to School Beacon Flashers. It is designed for extreme temperature applications and has low power requirements, making it suitable for solar-powered applications. The simply integrated unit can be retrofitted into existing School Beacon cabinets to upgrade the school beacons with the latest technology.

The unit works in conjunction with the Glance Platform, providing a cloud-based School Beacon solution. The unit adds remote monitoring and control to your school beacon equipment and allows remote configuration to schedules for the school beacons from the Glance cloud-based software. Glance provides an easy means of 24/7 monitoring of school beacon status and health, such as AC power, battery backup, cabinet door status, local override control, and radar speed information.

Equipped with a self-calibrating knockdown detection device, the AI-500-070 can detect when a pole has been knocked down. Additionally, as soon as a problem is detected in the field, email/text alerts are sent to notify the necessary personnel of the exact fault.

Features & Benefits

- ✔ Low-cost Internet connectivity solution
- ✔ Low power consumption
- ✔ Cellular modem
- ✔ Compatible with Glance platform
- ✔ GPS enabled for self-locating
- ✔ Monitor beacon lamps current
- ✔ Remotely change schedule to multiple devices
- ✔ Built-in knockdown detection sensor
- ✔ Email & text messages when faults are detected
- ✔ Integral battery back-up for power fail reporting
- ✔ Local manual override switch
- ✔ Future-proof with "over-the-air" software updates
- ✔ Cellular/PCS wireless modem (w/ 10 year connectivity & service plan)

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Hardware Specification

APPLIED INFORMATION

AI-500-070

Connectivity

Cell Modem*	Yes
RS-232 Port	Yes
Ethernet Port (10/100 Base-T)	Yes
GPS	Yes
Knockdown Sensor	Yes

Industrial I/O

Digital Outputs	2 X Beacon Circuits
Digital Inputs	Beacon Status & Door Open Switch
Analog Inputs	AC Power, Solar Batteries & Temperature

Miscellaneous

Operating Systems	FreeRTOS Systems
In Service Light	Yes
Operating Temperature	-37°C to 74°C
Humidity	5-95% non-condensing
Dimensions	8" x 5" x 2"
Input Voltage	10-30v DC, 120V AC
Power Consumption DC	idle - 149mA avg; active - 212mA avg
Power Consumption AC	idle - 17mA avg; active - 24mA avg
Battery Backed Memory	Yes

Also suitable for...

Solar/battery powered	Yes
Lamp Monitoring	Yes
Scheduling	Yes

** Custom configurations available
   for volume orders