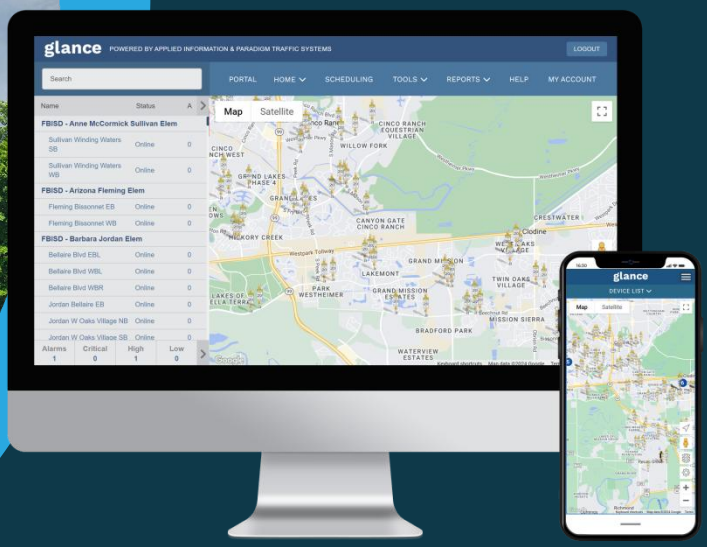
APPLIED® INFORMATION



AI-500-070-C

Low Power School Beacon Timer Switch and Cellular Modem

OVERVIEW

The AI-500-070C Low Power School Beacon Timer Switch and Cellular Modem has been engineered with the focus on providing a cost-effective, low-power, easy-to-integrate means of adding remote monitoring and control to solar-powered school beacon flashers. The simply integrated low-power device can be retrofitted into existing solar beacon cabinets, to upgrade school zones with the latest smart technology.

Once installed, the AI-500-070C offers cellular connectivity, monitoring, scheduling, data collection, and reporting capabilities through Applied Information's Glance® platform. Glance, a cloud-based solution, allows for 24/7 monitoring of school beacon status and health, such as; solar power, solar battery, solar current, and more. Remotely configure and control school flasher schedules, and observe system operation and reliability in real-time, or through automatically generated reports.

Equipped with a self-calibrating knockdown detection device, the AI-500-070C is able to 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

- Ultra-low power consumption
- Small form factor
- Works with Glance
- Easy to install and configure
- Utilizes the Glance web-based platform
- GPS enabled for self-locating
- Built-in knockdown detection sensor
- Low-cost Internet connectivity solution
- Failure alerts sent via text or email
- System reports automatically generated
- Future-proof with “over-the-air” software updates

HARDWARE SPECIFICATION

AI-500-070-C	
Connectivity	
Cell Modem Cat 1 Bis	Yes
OTA Software Update	Yes
GPS	Yes
Knockdown Sensor	Yes
I/O	
Digital Outputs	Beacon Control Circuits
Digital Inputs	Beacon Status and Door Open Switch
Analog Inputs	Solar Power, Solar Batteries, Solar Current and Temperature
Miscellaneous	
Operating Systems	FreeRTOS Systems
Ultra Low Power Processor	Yes
Operating Temperature	-37°C to 74°C
Humidity	5–95% non-condensing
Dimensions	1" x 2.4" x 4.5"
Input Voltage	10–30 V DC
Power Consumption	0.5 W
Battery Backed Memory	Yes
Suitable for Monitoring	
RRFB Pedestrian Crossings	Yes
Lamp Monitoring	Yes
Scheduling	Yes
Knockdown Detection	Yes

WORKS WITH glance™

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