APPLIED® INFORMATION

AI-500-070C 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-500-070C	
Connectivity	
Cell Modem CAT M	Yes
GPS	Yes
OTA Software Update	Yes
Knockdown Sensor	Yes

Industrial I/O	
Digital Outputs	Beacon Control
Digital Inputs	Beacon Status & Door Open Switch
Analog Inputs	Solar Power, Solar Batteries, Solar Current, 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 VDC
Power Consumption (Avg.)	0.5W
Non-volatile Memory	Yes

Also suitable for...	
RRFB Pedestrian Crossings	Yes
Lamp Monitoring	Yes
Scheduling	Yes
Knockdown Detection	Yes

3000 Summit Pl, Suite 150, Alpharetta, GA 30009 • 678-830-2170 • appinfoinc.com • sales@appinfoinc.com