

## Solar Series Wireless Scheduled Beacons: 1400 Series

CE & UL CERTIFIED ELECTRICAL COMPONENTS



The Solar Series Wireless Scheduled Beacon Systems give end users the ability to pre-set and schedule all beacon operations and characteristics via website access or on-demand via mobile device with connection to the 3G / 4G cellular network. They are designed specifically for areas where traffic patterns can change at different times of the day such as school zones, playground areas and construction zones. The 1400 Series Beacons are completely autonomous, alleviating any need for external wiring, power inputs, trenching or cabling and can be installed in minutes. With various LED and Housing colors, System Sizes and Single or Dual Beacon set-up, the Solar Series Wireless Scheduled Beacons can be customized to meet the exact needs of each and every project.

### APPLICATIONS

<b>School Zones</b>	Slow drivers down and keep them alert as they pass through school zones
<b>Road Conditions</b>	Alert drivers to weather alerts and other road status
<b>Playground Zones</b>	Remind drivers to slow down for playground zones

### BENEFITS

<b>High Quality</b>	Designed and manufactured in North America
<b>Clean Technology</b>	Solar-powered and wireless to save on power bills and end roadway trenching
<b>Flexible</b>	Adjustable flash pattern to meet regulatory requirements
<b>Reliable</b>	Energy management system to ensure operation under all environmental conditions
<b>Simple</b>	Installs in minutes to minimize traffic disruption and allow for relocation and re-purposing
<b>Elegant</b>	Self-contained, cabinet-free, discrete design to enhance streetscapes and inhibit vandalism

# SPECIFICATIONS

## SYSTEM OVERVIEW

<b>Certification</b>	CE and UL certified electrical components
<b>Compliance</b>	FHWA MUTCD compliant FCC EMC Class A verified
<b>Operation</b>	Adjustable computer schedule and Mobile device activation
<b>Flash Patterns</b>	MUTCD (0.5 second on, 0.5 second off) or Tech High Visibility Strobe Pattern
<b>Operation Temperature</b>	-40°C to +74°C
<b>Controller Input Voltage</b>	12 V DC
<b>Solar Panel</b>	16-20 W nominal 12 V, CE and TUV certified
<b>Battery Storage</b>	AGM12V, 18Ah, UL certified, field replaceable, Optional cold weather battery upgrade
<b>Alternate Power</b>	AC / Solar hybrid available AC-Only available
<b>Diagnostics</b>	Reporting on diagnostic information including battery levels, activations, etc.

## POWER MANAGEMENT

<b>Rated Usage</b>	120 mins of activation per day (average)
<b>Charged Capacity</b>	Up to 30 days at rated usage (without charging)
<b>Auto Brightness</b>	6 stages of brightness for different light conditions and battery levels
<b>Customizable</b>	Automatic brightness disabled on request
<b>Self Monitoring</b>	Visual notification of sub-optimal operation

## LED MODULE

<b>Standard</b>	ITE VTCOSH-STD 2005
<b>Lens</b>	UV stabilized polycarbonate and Abrasion resistant
<b>Size</b>	8" or 12" diameter (200 mm or 300 mm)
<b>LED color</b>	● Amber
<b>Additional LEDs</b>	Optional tell tale LED (amber, approx – 1" x 2")

## COMMUNICATION-INTER-BEACON

<b>Between Beacons</b>	ISM spread spectrum radio, 902-928 MHz
<b>Range</b>	Up to 0.5 miles (800 m) with line of sight
<b>Network Addresses</b>	8 unique addresses to avoid interference between multiple crosswalk locations
<b>Compatibility</b>	All family beacons

## COMMUNICATION - PRIMARY BEACONS

<b>Incoming commands</b>	Cell phone communication (requires 3G or 4G LTE cellular coverage, determined by modem type) or via direct connection
<b>GPS</b>	GPS, GNSS and GLONASS compatibility and Time synchronization

*A primary beacon receives preset schedules from the Tech School Zone Scheduler website and receives instant activation messages from authorized cell phone users.*

## COMMUNICATION - SECONDARY BEACONS

<b>Incoming Commands</b>	Relies on the primary beacon's commands
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*A secondary beacon relies on its primary beacon for all activation commands.*

## PHYSICAL DESIGN

<b>Configuration</b>	Fully self-contained
<b>Color</b>	Black, green or yellow Custom colors also available
<b>Solar Engine</b>	6061-T6 powder coated aluminum
<b>Signal Housing</b>	Polycarbonate
<b>Weight</b>	Approx — 34-37 lbs. (15-16 kg)
<b>Available Mounting</b>	Round pole: 2", 3", 4.5" Square post: 4", 6", 4"x 6" Telespar and U-Channel: 2" Mid-pole side mount

## WARRANTY

<b>Warranty</b>	5-year Limited Warranty for defects in workmanship and materials (excludes batteries and vandalism)
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*"Urban Renewables is not responsible for interruptions or lack of communication quality with cellular carriers, nor are we responsible for termination of carrier services in a given area.*