



Sensus VantagePoint DALI Lighting Control Module

The Sensus VantagePoint™ Lighting Solution is comprised of the VantagePoint™ Lighting Control Module and VantagePoint™ Lighting Software that leverages the FlexNet™ communication network. The solution allows utilities, cities and cooperatives to transform their infrastructure into a fully integrated smart city.

With the VantagePoint DALI Lighting Control Module, utilities can monitor a variety of streetlight alarms in real time utilizing networking controls and communication on LED and legacy area lights.

Mounted directly to the light fixture via the standard NEMA photocell socket, utilities have full range of control options including programming of dimming levels to the individual streetlight, immediate flash and turn-off, alarm reporting for direct and specific condition-based maintenance, and a range of analytics on the performance of the streetlight.

FEATURES

- ANSI C12.20 1.0 Class metrology certification
- Dispatched alarm notices with sorting, history, and GIS capture
- Self-discovery of fixture capabilities and type
- On-board GPS and self-commission
- Software as a Service (SaaS) in a secure cloud-based environment
- Multiple user roles with access based permissions
- Temporary override by fixture/group in response to dynamic events
- AES-256 encryption schemes with secure, licensed RF spectrum
- Supports Sensus electric/water/gas/IoT applications
- Photocell-only operation when installed prior to FlexNet network deployment; automatic commissioning once network deployed
- Leverages the ANSI C136.41 NEMA socket interface

Diagnostics Overview

- Fixture malfunction (lamp, ballast)
- Cycling
- Dayburner
- High/low voltage or current
- No report (communication, power, or equipment failure)

Functional Overview

- Self-discovery to identify fixture type and dimming/flashings capability
- Supports legacy HPS/LPS/MH/MV fixtures as well as new LED fixtures
- Supports both 0-10VDC and DALI LED drivers
- ANSI C12.20 1.0 class metrology, with hourly intervals
- Auto-install with onboard GPS capability for true “Plug and Play”

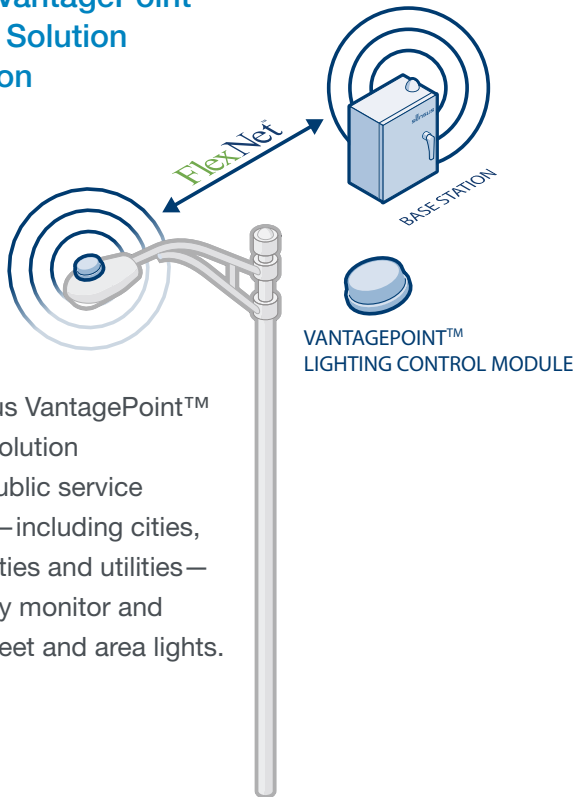
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BENEFITS

- Confirmed energy and maintenance savings
- Control legacy and LED fixtures with one module
- Control 0-10VDC and DALI LED fixtures with one module
- Easy deployment with auto-install module capability
- Project flexibility for legacy to LED conversions
- Can deploy in photocell mode prior to network turn up
- Fixture and lighting control by public safety officials
- Encryption for secure access and control of system
- One network for multiple smart grid applications
- Support for smart city integration

Sensus VantagePoint™ Lighting Solution Illustration



The Sensus VantagePoint™ Lighting Solution enables public service providers—including cities, municipalities and utilities—to remotely monitor and control street and area lights.

- AES-256 Encryption with key management

Mechanical

- Operational Temperature Rating: -40°C to 75°C
- Non-Operational (Storage) Temperature Rating: -40°C to 85°C
- Dimensions (max width and height): 87mm x 115mm (excluding pins)
- IP rating: IP66
- Vibration Tested to ETC 300 019-2-2

Wireless Enabled Communication

- 400MHz and 900MHz licensed, clear channel spectrum
- FCC part 15, 24, and 101 approved
- 7 miles line of sight
- Multi-application smart grid network, supporting E/W/G smart devices

Wireless Control

- Dimming/flashing control (LED fixtures)
- Remote on/off control
- Grouped scheduling

Electrical Specifications

- ANSI C136.41 NEMA socket interface
- 0-10V and DALI dimming through ANSI C136.41 socket
- Max Source Dimming Current: 15mA
- 20-1000 watt fixtures; 120-277VAC 60Hz
- 320J MOV -6500 amp surge protection
- Average power consumption 1.6 watts
- Maximum power consumption 2.2 watts
- RoHS compliant
- -40°C to 65°C ambient



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