Sensus VantagePoint

Lighting Control Module



The Sensus VantagePoint® Lighting Control Module is a foundational element for accomplishing your smart city strategic goals. By bringing visibility and control to street lighting assets, cities and utilities create safer communities, reduce energy usage and lower maintenance expenses.

The module is mounted directly to the light fixture via a standard NEMA photocell socket. It enables you to monitor streetlight alarms in real time and use networking controls and communication on both LED and legacy lights. Operators have full range of control options, including programming dimming levels to individual streetlights, immediate flash and turn off, alarm reporting and a range of analytics on streetlight performance.

FEATURES

- Dispatched alarm notices with sorting, history, and GIS capture
- Temporary override by fixture/group in response to dynamic events
- Multiple user roles with access based permissions
- AES-256 encryption with key management
- Software-as-a-Service (SaaS) in a secure cloud-based environment

BENEFITS

- One network for multiple smart grid and smart city applications
- Up to 30% reduction in energy costs
- When combined with LED lighting, maintenance costs can be reduced up to 80%
- Auto-install with onboard GPS capability for true “Plug and Play”
- Remote lighting control for public safety officials
- Supports Sensus electric, water, gas, and IoT applications

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
- Leverages ANSI C136.41 7-pin NEMA socket interface
- ANSI C12.20 1.0 class metrology on standard offering (0.5 class offering is available), with hourly intervals and pulse-out infrared meter calibration interface
- Photocell-only operation when installed prior to FlexNet network deployment; automatic commissioning once network deployed

VantagePoint

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MECHANICAL

Operational Temperature Rating	-40°C to 70°C (-40°F to 158°F)
Non-operational (Storage) Temperature Rating	-40°C to 85°C (-40°F to 185°F)
Dimensions	Circumference: 87mm Height (excluding pins): 115mm
IP Rating	IP66
Vibration	Tested to ETC 300 019-2-2

ELECTRICAL SPECIFICATIONS

ANSI C136.41 NEMA socket interface
0-10V and DALI dimming through ANSI C136.41 socket
4000 VDC Optical isolation
Maximum Source Dimming Current: 15mA
Maximum load: 1000W , 1800VA and 10 amps switching
Operating voltage: 105-305VAC (50/60 Hz)
320J MOV, 6500 amp surge protection - standard 420J MOV, 10,000 amp surge protection - optional
Average power consumption: 1.6 watts
Maximum power consumption: 2.2 watts
RoHS compliant
Designed to the following standards: BS5972, ANSI C136.10, ANSI C136.41, UL773/CSA C22.2, EMC EN55015, EN61547 EN61000-3-2, EN61000-3-3, EN61347

WIRELESS ENABLED COMMUNICATION

900MHz licensed, clear channel spectrum
FCC part 15, 24, and 101 approved
7 miles line of sight
Multi-application smart grid network, supporting electric, water, and gas smart devices

WIRELESS CONTROL

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



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