

# Street Light Management Solution

## Enabling Smart Cities and Utilities through Intelligent Lighting Management Solutions

The Landis+Gyr Street Light Management Solution enables our customers to monitor and manage street lights – both High Pressure Sodium (HPS) and LED luminaires – on Landis+Gyr's communication network. The controller incorporates Landis+Gyr's Network Node, a fully functional, small IoT RF radio module capable of communicating on Wi-SUN compliant RF Mesh IPv6 or RF Mesh networks. As part of our Gristream Connect IoT portfolio, Landis+Gyr's Street Light Controller and Management Software serve as a foundation for other smart city applications, while vastly improving energy and operational efficiencies.

### ENHANCED SAFETY FEATURES

- Luminaire health monitoring and outage detection
- Supercapacitor support for power outages

### METROLOGY CAPABILITIES

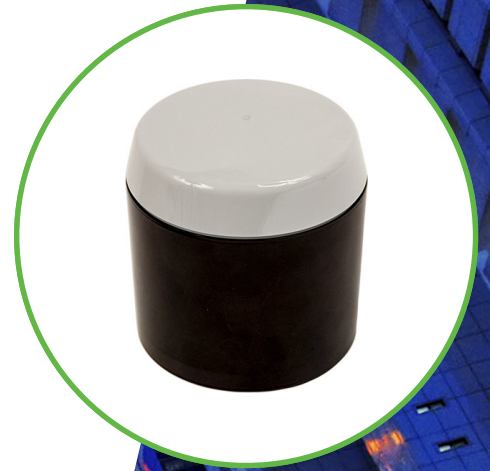
- Load-side accumulated energy, instantaneous current, voltage, power, and power factor

### IMPROVED OPERATIONAL & ENERGY EFFICIENCIES

- Improved energy and asset management
- GPS location — maps with street light visualization
- Dimming schedule creation
- Constant lumen output: ramp up power over time to maintain lumen efficacy

### COMPONENTS

- Landis+Gyr street light controller with integrated Network Node
- Command Center 7.1 MR3 or later
- Street Light Management Software



# Street Light Controller Product Specifications

| FCC Class B Device

CONTROLLER SPECS	
Dimensions of Controller	Diameter 3.5" (88mm), Height 3.6" (92mm)
Voltage	120-277V (50-60 Hz)
Material	Lexan™ SLX Polycarbonate
Ingress Protection	IP67
Temperature Rating	<b>Operational</b> -40°C to 60°C <b>Storage</b> -40°C to 85°C
Compatibility (General)	LED, HPS, and induction to a max load of 6A
Compatibility (Luminaire with ANSI C136.41 standard receptacle)	All Features supported by LED lamp with 5 and 7 pin All features supported by lights with 3-pin receptacles on HPS lights (except dimming)
Dimming Method	Complies with 0-10V DC (IEC60929) and DALI (IEC62386)
Dimming Ramping Process	Dimming in gradual steps every 6 seconds (e.g. 100% to 20% = 102 seconds)
Dimming Schedule	Daily or weekly recurring schedule with ability to schedule a special event, in 1 minute increments with 1% resolutions
On / Off Trigger	Photo sensor for local light detection (selectable) with GPS based astronomical dawn/dusk back up

RADIO SPECS	
Frequency Range	902.2 to 927.8 MHz
Supported Data Rates	RF Mesh (N500): 9.6, 19.2, 38.4, 115.2 kbps RF Mesh IP (N550): 50, 150, 200 kbps
Output Power	<b>Low</b> Min: 16, Typical: 17, Max: 18 dBm <b>Med</b> Min: 21, Typical: 22, Max: 23 dBm <b>High</b> Min: 26.5, Typical: 28, Max: 28.8 dBm
Receiver Sensitivity	<b>9.6 kbps</b> Min: -114, Typical: -112, Max: -110 dBm
	<b>19.2 kbps</b> Min: -112, Typical: -110, Max: -108 dBm
	<b>38.4 kbps</b> Min: -110, Typical: -108, Max: -106 dBm
	<b>115.2 kbps</b> Min: -102, Typical: -100, Max: -98 dBm
	<b>50 kbps</b> Min: -107, Typical: -105, Max: -103 dBm
	<b>150 kbps</b> Min: -99, Typical: -97, Max: -95 dBm
	<b>200 kbps</b> Min: -98, Typical: -96, Max: -94 dBm

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