**LightGrid™ Node**

Outdoor Wireless Control System 2.0

**Description**

*LightGrid™ Outdoor Wireless Control System* from GE allows remote monitoring and control, utility-grade energy measurement and GPS mapping of streetlights.

**Applications**

- Street Lighting
- Area Lighting

**Product Features**

- Integrated GPS in Each Node for Real Time Asset Reporting
- DALI Interface for Asset Management and Dimming
- Near Field Communication as Additional Commissioning option
- Inrush Current Limiting Circuit
- Utility Grade Measurement up to 0.5% Accuracy
- IR Communication for Metering Verification
- Self-Forming & Self-Restoring Mesh Network
- Static IPV6 Data Addressing and Routing
- Industry Standard Secure Encrypted Communications
- Nodes, Gateway spacing up to 1000ft apart depending on installation
- Energy Consumption Reporting as Frequent as 15 Minutes
- Full Autonomous Photocell Functionality (No wireless network required)
- Node Programable for Autonomous Time Based Schedules
- Flexible Output Level Control through Control Software
- Real Time Measurement and Storage of Voltage, Current, Wattage, Power Factor, and Hours of Operation
Product Specifications

- Input Voltage: 120-277V
- Radio Frequency: 915 MHz ISM Band, FCC CFR 47 15.247 Intentional Radiators, ICES-005
- Network Communication: IEEE 802.15.4, 6LoWPAN, 50 Channel FHSS
- Addressing: IPv6 Protocol
- Dimming: Automatically Detected 0-10V/DALI (GE Patent)
- Operating Temperature: -40 to +50°C
- Surge: ANSI C136.2 2015, 6KV/3KA Combination Wave
- Power Consumption: 2W 120-277V
- Photocell: Complies with ANSI C136.10-2006
- GPS Accuracy: +/- 3m in Clear Open Sky
- Near Field Communication for Additional Commissioning
- IR(optical) Output for Utility Meter Calibration Validation
- Digital In/Out and Analog Inputs
- Configurable Serial In/Out Digital Communication
- Supports up to 1000W Load
- Inrush Current Limiting at Turn On
- Security: AES Encryption and Certificate Based Authentication
- Utility Grade Energy Measurement: Complies with Relevant Sections of ANSI C12.20
- EMI: Complies with FCC CFR 47 15.208, 15.209 and ICES-005 (B) /NMB-005 (B)
- Ingress Protection: Class IP65
- Complies with ANSI C136.41-2013 (ANSI Dimming)
- Weight: 0.51 lbs
- Warranty: 5 Years Standard, 10 Year Extended Available

Ordering Number Logic

<table>
<thead>
<tr>
<th>ID</th>
<th>VOLTAGE</th>
<th>CONFIGURATION</th>
<th>METERING TYPE</th>
<th>METERING PRECISION</th>
<th>COMMISSIONING</th>
<th>MAXIMUM LOAD</th>
<th>NETWORK</th>
<th>LOCATION OPTIONS</th>
<th>DIMMING</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELWN</td>
<td>0 = 120-277V</td>
<td>A = ANSI socket (External node)</td>
<td>B = Load + Node</td>
<td>U = 0.5% Utility Grade</td>
<td>B = GPS+NFC</td>
<td>A = 1000 Watt</td>
<td>A = Network A</td>
<td>XX = Default</td>
<td>AD = 0-10V/DALI</td>
<td>None = Default</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B = Network B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C = Network C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Examples:

ELWN0A8UBAAXXAD: 120-277V, ANSI Socket, Load and Node Metering, Utility Grade, GPS and NFC Commissioning, 1000W Load, Network A, DALI/0-10V Dimming