Litnode™ Wireless Relay
Intelligent distributed control & monitoring system
Standard 0-10V dimming sink or source
Single product for voltages from 120 to 480 Vac
ANSI C136-41 connector

A **complete IoT control relay** easily networkable in both small and vast networks enabling groups & zoning, adaptive lighting & scheduling functions and much more.

- Complete utility grade power metering with built-in alarms
- Adaptable Sink & Source 0-10V output compatible with all dimming drivers
- High capacity long life relay
- Same module for all voltages from 110 to 480 Vac 50/60Hz
- Long range wireless RF mesh communication
- Designed with standard NEMA C136-41-2013 7 prongs twist lock connector

**APPLICATIONS**
- Parking lots (airports, shopping centers, municipal, private, etc.)
- Car dealerships
- Pathway and trails
- Parks
- Sports venues
- Street, area and Roadway lighting
- Buildings
- Gated communities
- and much more!

Best suited for LED and works with HPS, MH and MV fixtures
- Built for both indoor and outdoor installations

**MARKETS**
Cities, utilities, facilities, real estate/land owners to operate scalable IoT networks composed of lights, meters, sensors, digital panels, cameras, and any other IoT devices for many sectors — Agriculture, Energy, Safety, etc.

**DESCRIPTION**
Compact addressable modules that offers **advanced wireless control, monitoring & metering** for each fixture

Contains the **most evolved firmware** on the market with state-of-the-art features to ensure system robustness and future-proof over-the-air upgradability.

Tools for quick, simple and economical commissioning with instant functional test and geo-localisation at installation.

**MAIN FEATURES**
- Fully bidirectional long range RF mesh suitable for urban and rural installations.
- Individual addresses: over 2 billion unique serial numbers.
- Military grade 128bits AES communication encryption.
- Low latency even in large networks.
- Multi-level grouping with dynamic level adjustment.
- Adjustable minimum and maximum levels with 1% steps.
- Programmable after blackout state with peak shaving.
- Remotely controllable with instantaneous metering.
- Multi-level demand response (load shedding) built-in
- Lumen depreciation compensation over time.
- GPS coordinates stored in non-volatile memory at installation.
- Extensive network and system health monitoring with multi-level fall back safety features.
- Complete reporting including alarms for maintenance optimisation.
SPECIFICATIONS

Electrical
- **Voltage:**
  - 110 to 480 Vac (+/- 10%) - 50 & 60Hz
  - Less than 1 watt consumption at 120V
- **Maximum load Amperage:** 7 amps*
- **Output Status Monitoring:** Standard feature
- **Power Metering:** Amperage—Voltage—Power (0.5% accuracy), PF, Cum. Energy - Burn-time and cycles counters - C12.22 metering protocol compliance
- Meets IEC61000-4-3 and EN61000-4-3 standards: immunity to radiated electromagnetic fields

Electronic
- **0-10V** (purple + gray wires): for all types of 0-10V drivers & ballasts requiring either sourced (up to 20mA) or sunk (up to 5 mA)
- **Input** (orange wire): Digital input for sensor
  - ex: Motion sensor or switch (0-30V)
- **Output** (brown wire): 24Vdc - max: 50 mA total

Radio
- MGM12P Multi-protocol wireless mesh module (see manufacturer for details)

Options
- GPS
- Vibration / Tilt sensor

Environmental
- **Ambient temperature range:** -40C to +70C
- **Relative Humidity:** up to 99% non-condensing (IP66)

Listings
- **UL:** E476540
- **U.S. FCC:** QOQMG12P3
- **UL94V-0 Flame retardant

Warranty
- Limited 3-year warranty (Up to 10 year extended)

WIRING DIAGRAMS
- Compliant with C-136-41 ANSI 5 and 7 prongs standard receptacles.
- Compatible with C-136-10 ANSI 3 prongs standard receptacles with no light level control.

**DIMENSIONS**
(Dia x H) (in /mm)
3.125 x 3.75 in /
79.4 x 95.3 mm

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Model</th>
<th>Output</th>
<th>Status Monitoring</th>
<th>Metering</th>
<th>0-10V source and sink</th>
<th>Voltage</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>RME-WP</td>
<td>1x 7A*</td>
<td>Yes</td>
<td>Yes</td>
<td>Standard</td>
<td>110 to 480</td>
<td>-G=GPS, -T= Tilt/Vibration</td>
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</tbody>
</table>

*7A at 120-240, 5A at 277-347 and 2A at 480Vac

**DimOnOff Specification submittal**

<table>
<thead>
<tr>
<th>JOB NAME:</th>
<th>CATALOG NUMBERS:</th>
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