Liteno<sup>™</sup> Wireless Relay

Intelligent distributed control & monitoring system

Standard 0-10V dimming sink or source

Single product for voltages from 120 to 480 Vac

**APPLICATIONS**

- Designed to create flexible, smart automation systems for institutional, commercial, municipal and industrial environments
- Suited for both indoor and outdoor installation
- Will suit any system of any size, from single office to city wide street lighting and smart city networks.
- Perfect for retrofit and new installations: No central panel or communication wiring required: Works both as an autonomous system, or managed from a central system.
- Enables energy conservation by automating daylight & motion sensing with occupied and unoccupied levels including lamps saver function.
- A single sensors will control several hundreds relays to create infinite zoning patterns
- Adds intelligent functions and networkability to any low-voltage motion & lux sensors
- Configurable Master-Slave network for flexible control
- Demand response (load shedding) and emergency mode built-in.
- Dimming (0-10V): Smooth Fade & Timers
- Suitable for general purpose lighting control applications

**FEATURES**

- **Inputs for low-voltage switch, motion and lux sensor (option)**
  - Compatible with any low-voltage occupancy & lux sensors (Daylight harvesting) and switches
  - 100 hrs. burn in for fluorescent
  - Each module can be set as a master, and control numerous other companion modules
  - Universal dimmer 0-10V (Sink / Source) for all types of ballasts & drivers
  - Secondary outputs for driving another external load (option)
  - Bidirectional long range wireless RF mesh network.
  - Military grade 128bits AES communication encryption.
  - Individual addresses: up to 2 billion unique serial numbers
  - Multi-level grouping and multiples scenarios.
  - Adjustable minimum and maximum dimming levels.
  - Programmable state after blackout, with peak shaving options.
  - Both locally and remotely controllable with status & metering reporting.
  - Manual ON/Auto-Off, Auto-ON/Auto-Off and grace period compliant (complies with N.Y. LL48 and many other energy requirements and incentives)

**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 offer wireless control, monitoring & metering, plus digital and analog inputs and outputs to simply & easily create IoT networks.

No wires to run. Drastically simplifies control & automation projects, especially in retrofit environments. Challenges the legacy world of control panels, wired-systems and ordinary motion-sensor circuit relays.

Perfectly adapts to complex automation situations for quick, simple and economical commissioning.

**PRODUCT DATA**

- **RTM-WP**

**A complete IoT control relay** easily networkable with multiple thousands nodes.

- Complete power metering with status and built-in alarms
- Adaptable sink & source 0-10V output compatible with all dimming drivers
- High capacity long life relay
- Surge protection and color-coded wiring
- Long range mesh network communication
- Designed for installation inside fixtures or outside in a NEMA4 enclosure
### SPECIFICATIONS

#### Electrical
- **Voltage:**
  - Operating range 120 to 480 Vac (+/- 10%)
  - Less than 1 watts 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
- Meet the standard IEC61000-4-3 and EN61000-4-3: immunity to radiated electromagnetic fields

#### Electronic
- **Std. 0-10V dimming:** for all types of 0-10V drivers & ballasts requiring either to be sunk (up to 5mA) or sourced (20mA standalone or higher w/ext. source)
- **Optional inputs:** 3 Digital: ex: motion sensor and switch top/bottom buttons (0-30V) + 2 Analog 0-30V
- **optional outputs:** 2 Digital sink max: 100 mA total or source 2.4mA (10K pull-up)
- **Aux power supply:** 24Vdc 50mA
- **Optional Keypad:** 6 button digital with RJ45 connector

#### Radio
- **MGM12P multi-protocol wireless mesh module** (see manufacturer for details)

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

#### Listings
- **UL:** E481666
- **U.S. FCC:** QOQMGM12P3
- **UL94V-0 Flame retardant ABS or Epoxy molding

#### Warranty
- **Limited 3-year warranty**

### DIMENSIONS

(L x W x H) (in/mm)
4.75 x 2.65 x 1.53 in /
120.65 x 67.31 x 38.9mm

(Note: option NEMA4 enclosure and cable gland (1/2in nipple) is available)

### WIRING DIAGRAMS

#### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Output</th>
<th>Status Monitoring</th>
<th>Metering</th>
<th>0-10V dimming</th>
<th>Inputs / outputs</th>
<th>NEMA 4 enclosure</th>
<th>Voltage</th>
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<tbody>
<tr>
<td>RTM-WP</td>
<td>1x 7A*</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>-IO</td>
<td>-N4</td>
<td>120-480</td>
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*7A at 120-240Vac, 5A at 277-347Vac and 2A when used at 480Vac

#### DimOnOff Specification submittal

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