intelliLIGHT® is a street lighting remote management system with in-depth grid management capabilities that ensures real-time feedback of any change occurring along the grid, increases energy efficiency (up to 35% energy saving through dimming and smart scheduling) and optimizes maintenance activities (up to 42% reduced operational costs). Also, intelliLIGHT® is a base platform for smart city applications like EV chargers, city-wide sensing devices or safety infrastructure – all powered from the street lighting grid.

intelliLIGHT® FPE-220 ELECTRONIC BALLAST CONTROLLER

› Controls lamps with electronic ballast up to 500 W
› Uses Power Line Communication (PLC) and includes data retransmission mechanism
› Provides real-time feedback through measured parameters
› Allows a wide range of configurable parameters
› Designed to be installed at the base of the streetlight pole or inside the lamp
› Built for outdoor installation, functions in extreme temperatures and humidity conditions
› Supports remote software upgrade
**ENERGY SAVINGS**

- **up to 35%**

**PLUG & PLAY**

- Adaptable to existing street lighting infrastructure
- Scalable & immediately operable

**MAINTENANCE COST REDUCTION**

- **up to 42%**

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<table>
<thead>
<tr>
<th><strong>FPE-220</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lamp Type</strong></td>
<td>LED, CF, HID</td>
</tr>
<tr>
<td><strong>Maximum lamp power</strong></td>
<td>500W</td>
</tr>
<tr>
<td><strong>ON/OFF function</strong></td>
<td>✔</td>
</tr>
<tr>
<td><strong>Dimming</strong></td>
<td>✔</td>
</tr>
<tr>
<td><strong>Dimming range</strong></td>
<td>0% – 100%</td>
</tr>
<tr>
<td><strong>Dimming steps</strong></td>
<td>stepless</td>
</tr>
<tr>
<td><strong>Control interface</strong></td>
<td>0-10V / DALI</td>
</tr>
<tr>
<td><strong>Network interface</strong></td>
<td>PowerLine CENELEC-C band</td>
</tr>
<tr>
<td><strong>Communication protocol</strong></td>
<td>LONWORKS/ANSI709.1</td>
</tr>
<tr>
<td><strong>Retransmission mechanism</strong></td>
<td>✔</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>230VAC / 50Hz – 60Hz</td>
</tr>
<tr>
<td><strong>Overvoltage protection</strong></td>
<td>5 minutes @ 400VAC</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>max. 2W</td>
</tr>
<tr>
<td><strong>IP rating</strong></td>
<td>IP67</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-25°C to +65°C</td>
</tr>
</tbody>
</table>

**Measured parameters**

- Lamp power
- Line voltage
- Current
- Active power
- Reactive power
- Apparent power
- Power factor
- Energy consumption (active/reactive)
- Running hours

**Alarms monitored**

- Overvoltage detection
- Overcurrent detection
- Lamp or ballast fault detection
- Device failure

**Configurable parameters**

- Auto on enabled/disabled/auto on time
- Auto off enabled/disabled/auto off time
- Start state: ON/OFF
- ON/OFF power threshold
- Overvoltage threshold
- Output transfer function: 0-10 V / DALI
- Strike retry count
- Fade time
- Lamp warming time
- Lamp cooldown time
- Operation mode: ON/ OFF, ON/OFF + DIMMING
- Optional sensors available: Pole door open, pole impact detection, pole ground missing

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FLASHNET

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