



## Features

- ON/OFF and dimming of luminaries
- Voltage, power measurement
- Long range RF communication
- Inbuilt internal ON/OFF and deeming schedule
- Update firmware over the air
- Mounting on standard NEMA connector
- High Voltage supply range
- Inbuilt antenna

The ALC-N1 is Light Controller for use in Atreyo Smart Street Light System to control light luminaries. This model is mounted directly to the luminaire with the 5 pin NEMA

socket. Controller has inbuilt power, voltage and other electricity parameter measurement. It is ideal for mount in existing infrastructure and in new installations.

| Description                   | Parameter  |
|-------------------------------|--|
| <b>Processor</b>              | ARM  |
| <b>Connection</b>             | RF open band/LoRa  |
| <b>RTC</b>                    | Real time clock with battery   |
| <b>Configuration</b>          | By command from server   |
| <b>Communication protocol</b> | Encrypted custom protocol  |
| <b>Dimming</b>                | 0-10V system   |
| <b>Functions</b>              | <ul style="list-style-type: none"> <li>• Luminaries on/off with 0 detection</li> <li>• Luminaries brightness control</li> <li>• Stand alone schedule system</li> </ul> |
| <b>Update</b>                 | Over the air from server or RS485  |
| <b>Antenna</b>                | Internal antenna   |
| <b>Measurement</b>            | <ul style="list-style-type: none"> <li>• Voltage</li> </ul>  |

| Description   | Parameter  |
|---|--|
|   | <ul style="list-style-type: none"> <li>• Ampere</li> <li>• Wattage</li> <li>• Power factor</li> <li>• Frequency</li> <li>• Internal temperature</li> </ul> |
| <b>Grouping support</b>                               | 16 group support   |
| <b>Powers Supply</b>                                  | 85-515V AC 50-60Hz   |
| <b>Power Consumption</b>                              | 2W average   |
| <b>Device enclosure</b>                               | UV resistant ABS cap   |
| <b>Device mounting</b>                                | Standard NEMA connector 5 pin  |
| <b>Environmental Specifications (self compliance)</b> | Operating Temperature: 0 to +70°C<br>Humidity: 5% to 95% RH<br>IP65  |



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