

Meazon Intelligent Light Controller provides a complete smart LED lighting solution, enabling automatic compensation for daylight luminosity loss, securing excellent working conditions without any energy loss. Can be used to control street lighting, installed inside street lighting poles. The 2 build-in relays provide flexibility in 2 loads independently. Dimmable output is used to dim lights connected to relays or not.

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|---|---|
| <b>Architecture</b>                           | ZigBee Mesh Network<br>NB-IoT<br>LTE CAT M1         |
| <b>Frequency band (ZigBee)</b>                | 2.4 GHz   |
| <b>Frequency band (NB-IoT and LTE Cat M1)</b> | NB-IOT Bands: 20, 8, 3<br>M1 Bands: 13, 12, 5, 4, 2 |
| <b>Minimum data reporting interval</b>        | 1 Second<br>(default 1 minute)                      |
| <b>Data Storage in the device</b>             | Yes   |
| <b>Security mechanism</b>                     | AES encryption 128 bits                             |

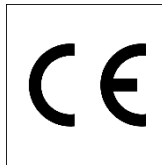
## Meazon Intelligent Light Controller

**State-of-the-art smart lighting controller for building lighting and street lighting management including dimming, on/off control and analytics, with 2 build in relays and one dimmable output.**

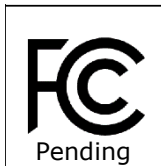
### Description

Meazon's Intelligent Light Controller provides a flexible, scalable and cost-efficient platform for buildings & municipalities to save energy and maintenance costs. It is based on Meazon's DOE awarded energy submetering technology providing local schedules storage, on/off, dimming and real time energy monitoring. It provides 2 build-in relays, and one dimmable output. Can dim one or both relay outputs. Motion sensor and ambient light metering is an optional feature.

It helps buildings & municipalities save communication and operational costs and at the same time improve working conditions by keeping indoor or outdoor luminosity at a constant level automatically compensating for daylight luminosity loss. It uses Zigbee, WiFi, NB-IoT or LTE Cat M1(\*1) to communicate the data to a cloud platform that enables management and troubleshooting functions. Local Server usage can also be supported.



|   |   |
|---|---|
| <b>Operating Voltage / Frequency</b>                  | 100-285 Vac / 45-65 Hz  |
| <b>Electric parameters measured</b>                   | Irms, Vrms, Power factor Active Power & Energy, Reactive Power & Energy, line Frequency.  |
| <b>Ranges of measured parameters - model depended</b> | <ul style="list-style-type: none"> <li>Voltage: 100 to 285 Vac, 45 to 65 Hz</li> <li>Current: up to 10 Ampere</li> </ul>  |
| <b>Accuracy of measurements</b>                       | <0,5% of reading measurement error (metering device)  |
| <b>Build-in Data log record</b>                       | 3000 records  |
| <b>Features / functionalities</b>                     | <ul style="list-style-type: none"> <li>0-10V or 1-10V control</li> <li>PWM Control</li> <li>Dali protocol support</li> <li>2 x Relay outputs</li> <li>Isolated from main supply</li> <li>RTC</li> </ul> |



|                              |  |
|------------------------------|--|
| <b>Coverage</b>              | The coverage is extended to the borders of the streetlight network of the city.                              |
| <b>Dimensions</b>            | L=38mm W=46mm H=146mm  |
| <b>Operating environment</b> | Temperature: -20° C to 60° C, optionally -35°C to 75°C<br>Relative Humidity: 10% to 90% (RH), non-condensing |

\*1 WiFi & NB-IoT/LTE Cat M1 not available yet