



Meazon Intelligent Light Controller provides a complete smart LED lighting solution for buildings, 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 wherever using Smart Polis Hub is not possible. The 2 build-in relays provide flexibility in 2 loads independently. Dimmable output is used to dim lights connected to relays or not.

Architecture	ZigBee Mesh Network NB-IoT LTE CAT M1
Frequency band (ZigBee)	2.4 GHz
Frequency band (NB-IoT and LTE Cat M1)	NB-IOT Bands: 20, 8, 3 M1 Bands: 13, 12, 5, 4, 2
Minimum Data report interval	1 Second (default 1 minute)
Internal Data Storage	Yes
Security mechanism	Yes. AES encryption 128 bits.

Meazon Intelligent Light Controller

State-of-the-art smart lighting controller for building lighting and street lighting managements 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 save communication and operational costs and at the same time improve working conditions by keeping indoor luminosity at a constant level automatically compensating for daylight luminosity loss. It uses Zigbee, WiFi, NB-IoT or LTE Cat M1 to communicate the data to a cloud platform that enables management and troubleshooting functions. Local Server usage can also be supported.



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



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