



Meazon Smart Polis Hub provides a complete smart LED lighting solution that creates a backbone network using the city's streetlight infrastructure using ZigBee to connect different types of sensors to measure pollution, weather conditions, parking availability, garbage collection and NB-IoT or LTE Cat M1 to communicate the data to the cloud.

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	Sub-second (default 5 minutes)
Internal Data Storage	Yes
Security mechanism	AES encryption 128 bits, VPN for NB-IoT, VPN for NB-IoT

Meazon Smart Polis Hub

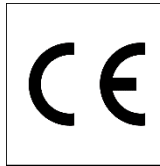
State-of-the-art smart lighting system for analytics, central management, diming and control.

Description

Meazon's Luminaire NEMA Hub provides a plug'n'play, flexible, scalable and cost-efficient platform for municipalities to save energy and maintenance costs. Optionally, comes with build-in temperature sensor, real time clock (RTC), GPS, accelerometer and a high accuracy ambient light digital 16-bit resolution sensor for ambient light detection from 0 lx to about 167 klx.

It helps municipalities save communication and operational costs for their overall smart city infrastructure. It uses ZigBee to acquire and carry data from different types of sensors that measure pollution, weather conditions, parking lot availability and garbage collection, among others.

Offers the option to use NB-IoT or LTE Cat M1 with a fall back to 2G/3G/4G to communicate data to a cloud platform that enables management and troubleshooting.



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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	Voltage: 100 to 285 Vac, 45 to 65 Hz Current: up to 15 Ampere
Accuracy of measurements	<0,5% of reading measurement error (metering device)
Build-in Data log record	3.000 records
Features / functionalities	0-10V or 1-10V control PWM Control Extra pin availability Astronomical clock & scheduler Isolated from main supply Optional: RTC, Accelerometer, Temperature sensor & light sensor
Coverage	The coverage is extended to the borders of the streetlight network of the city.
Dimensions	D= 84mm H= 86mm
Operating environment	Temperature: -20° C to 60° C, optionally -35°C to 75°C Relative Humidity: 10% to 90% (RH), non-condensing