



Description

Light Control Unit (NEMA) is an intelligent control device for remote control and monitoring of streetlights.

LCU (NEMA) provides a Plug-and-Play installation on the lamp via a 7-pin NEMA connector that meets the ANSI C136.41-2013 standard.

The device is directly powered by the AC line, has an integrated power and energy meter for diagnostics and is equipped with a relay to cut off the driver power supply during standby time, offering an additional protection.

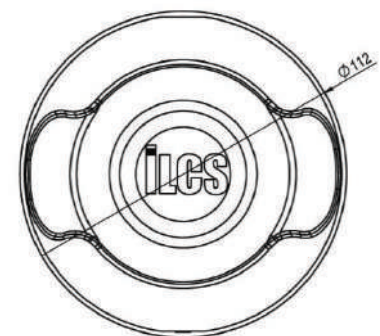
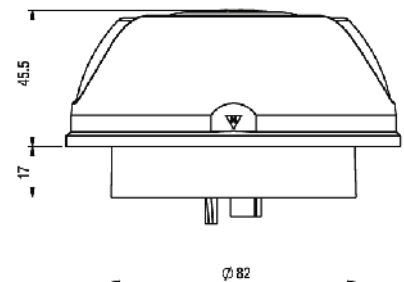
Communication with the data control unit takes place via wireless mesh network on the 2.4 GHz ISM band, with transmission power up to 20 dBm.

Equipped with brightness sensor and on-board GPS, it can also work in standalone mode.

Technical Specifications

Product code	WiSN-RMGA
RF communication	IEEE 802.15.4 Wireless Mesh Radio 2.4 GHz ISM band 16 radio channels +20 dBm max TX power
Output ports	Max load of 500W @ 230 Vac 0-10 V output (max 10 mA) DALI master output (optional)
Power supply	110/305 Vac @ 50/60Hz 1.4 W (max) Overvoltage, overload and thermal protection Short-circuit and open-circuit protection
Features	Integrated energy metering Standalone operation Firmware update over-the-air (OTA) Dedicated redundant EEPROM Ambient brightness sensor ADC input for external signal 3-axis accelerometer Compatible with TAI and FAI installation
Built-in GPS	GPS, GLONASS with SBAS receiver High precision map positioning Automatic dusk and dawn calculation
Encryption	Hardware-based with 256 bit key
Temperature range	-25°C ÷ 70°C (operation) -40°C ÷ 120°C (stockage)
Protection grade	IP66
Size	112 x 112 x 62.5 mm

Product Size





Description

Light Control Unit (Zhaga) WiSZ is an intelligent control device for remote control and monitoring of streetlights.

LCU (Zhaga) WiSZ complies with the specifications of the Zhaga Consortium Smart Street Lighting (Book 18), ensuring universal compatibility with all LED lamps equipped with standard Zhaga socket.

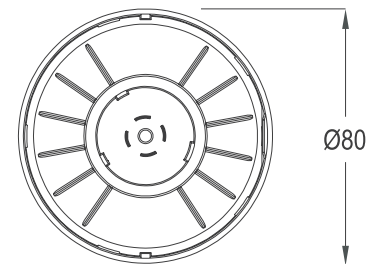
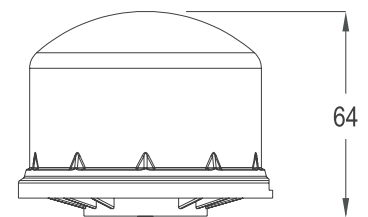
The device is powered at 24 Vdc and is equipped with a DALI2/SR interface with the role of Master, capable of controlling up to 24 compatible LED drivers and reading diagnostic data on status and consumption.

Communication with the data control unit takes place via wireless mesh network on the 2.4 GHz ISM band, with transmission power up to 20 dBm. Equipped with brightness sensor, RTC and in the full version, with on board GPS, it can also work in standalone mode.

Technical Specifications

Product Code	WiSZ WiSZ-GPS
RF Communication	IEEE 802.15.4 Wireless Mesh Radio 2.4 GHz ISM Band 16 Radio Channels +20 dBm Max TX Power
Interface	DALI2 / SR Master On / Off - Dimming Metering & Diagnostics Read from Driver (Supports up to 24 Drivers on Bus)
Power Supply	+24 Vdc WiSZ: 0.25 W (Max) WiSZ-GPS: 0.375 W (Max)
Features	Standalone Operation Firmware Update Over-The-Air (OTA) Integrated RTC (Battery Free) Dedicated Redundant EEPROM Ambient Brightness Sensor ADC Input for External Signal 3-Axis Accelerometer Compatible with TAI & FAI Installation
GPS Version	GPS, GLONASS with SBAS Receiver High Precision Map Positioning Automatic Calculation of Sunrise & Sunset
Encryption	Hardware-Based with 256-Bit Key
Temperature	-25°C to 70°C (Operation) -40°C to 120°C (Storage)
Protection Grade	IP66 / IK09

Product Size





Description

Light Control Unit (Zhaga) WiSZ Solar Z10 is an intelligent control device for remote monitoring and regulation of Solar LED street luminaires. Compliant with ZIO interface, it ensures universal compatibility with solar luminaires equipped with standard ZIO sockets.

Powered at 24 Vdc, it features a 3.3V TTL communication interface, collecting status, diagnostic and energy consumption data. Light Control Unit Zhaga WiSZ Solar Z10 integrates IEEE 802.15.4 wireless mesh network (2.4 GHz, up to 20 dBm) to manage nearby nodes without individual SIM cards, reducing deployment and operating costs.

An on board GNSS receiver enables positioning and time synchronisation and the device supports standalone operation for local control when backhaul connectivity is unavailable.

The advantage to use TTL interface is to not introduce extra cost and keep the product competitive without replacing charger. Light Control Unit (Zhaga) WiSZ Solar Z10 requires MPPT Charge controller with TTL interface.

Technical Specifications

Product Code	WiSZ Solar Z10
RF Communication	IEEE 802.15.4 Wireless Mesh Radio 2.4 GHz ISM Band 16 Radio Channels +20 dBm Max TX Power
Interface	TTL 3.3V Interface On / Off - Dimming Reading of Consumption & Parameters Supplied by the Drivers
Power Supply	10 to 30 Vdc
GNSS	GPS / BDS / GLONASS / Galileo / QZSS / SBAS, L1 High Precision Map Positioning Automatic Calculation of Sunrise & Sunset
Encryption	Hardware Based with 256-Bit Key
Temperature	25°C to 70°C (Operation) 40°C to 120°C (Storage)
Protection Grade	IP66 / IK09
Size	80 x 80 x 58mm

Product Size

