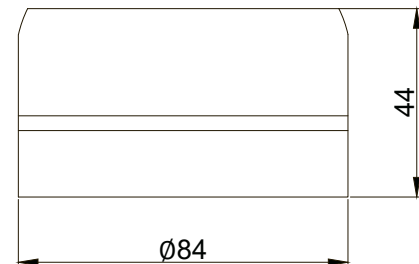# Qulon Mini

Ultra compact street lighting controller

QULON Mini is a controller for management and diagnostics of street lighting. Mini controls starters and auxiliary modules of the QULON product family and transmits information into operator software. Normally this controller is installed on the surface of a power cabinet but separate installation is also possible. If Mini is mounted on a luminaire case it can use a NEMA socket or direct wiring. In addition to its functionality QULON Mini can also control a single group of luminaires.

Remote management through QULON software: data from connected devices, sensors and meters are collected via RS-485 and transmitted to QULON server by GSM/2G/3G/4G/Nb-IoT. Geo positioning and accurate internal timing are ensured by integrated GPS/GLONASS module.

Key Features

Ultra compact waterproof IP66 case

Versions with open wires or NEMA plug

Withstand voltage up to 305V

Works with luminaires up to 1000W

Embedded daylight sensor

Embedded GPS/GLONASS module

RS-485 interface

Wireless communication via GSM/2G/3G/4G/Nb-IoT

Single luminaire group management

Remote software updates

44

Ø84

QULON CMS

The QULON CMS is an extremely powerful yet flexible lighting management system that allows remote control of lighting infrastructures of any size and sort: We successfully deployed this system to control street lighting in entire cities, highways and tunnels but also industrial and warehouse lighting, airports, livestock farms, greenhouses, parking lots, train stations, leisure centres, parks and many more; It is composed of two different interfaces, a PC software featuring the most advanced programming functions and a web version to monitor and control your lighting assets on the go, together they offer a complete suite of tools for any kind of project and any kind of user.

SUNDRAX electronics

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Qulon Mini

Ultra compact street lighting controller

Technical Specifications

Mechanical

Housing: Solid case
Material: Plastic
Dimensions, mm: 84(D) x 44(H) x 84(W)
Mass: 0.2 kg
Mounting: Luminaire case, pillar, etc

Power & Electrical

Input Voltage: ~100-270 VAC, 50/60 Hz or 12-30V
Input Power (max): 5 W
Max load Power: 1000 W

Environmental

Operating Temperature: -40...+70°C
Storage Temperature: -50...+80°C
Operating Relative Humidity (max): 100%
IP Rating: IP66
Certification: CE, RoHS
Warranty: 36 Month (Return to base)

Inputs/ Outputs

Connectors: Wires, NEMA C136.41 plug
Sensors: Embedded daylight sensor

Interfaces and Protocols

Control output interface/protocols: RS-485
Navigation: GPS/GLONASS
Radio Channel: GSM 850/900/1800/1900

Transmit Power Range(s):
Class 4 (+33dBm ± 2dB) for EGSM 850/900
Class 1 (+30dBm ± 2dB) for GSM 1800/1900

Configuration/ Indication

Setup: Remote via QULON software
Indication: LED

Package Contents

QULON Mini

Product Line

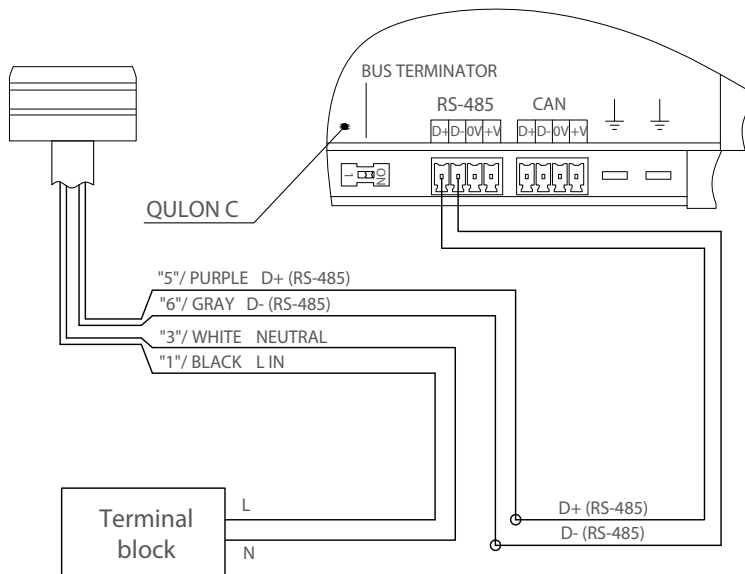| Name	Modification	Product code
QULON Mini	QULON Mini, 2G, NEMA	QUL-LW-N-2GRS
	QULON Mini, 2G, wire (1.5m)	QUL-LW-W-2GRS
	QULON Mini, 4G,	QUL-LW-N-4GRS
	QULON Mini, 4G, wire (1.5m)	QUL-LW-W-4GRS
	QULON Mini, NB-IoT, NEMA	QUL-LW-N-NBRS
	QULON Mini, NB-IoT, wire (1.5m)	QUL-LW-W-NBRS

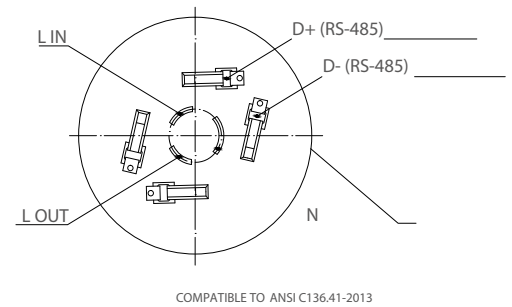# Qulon Mini
Ultra compact street lighting controller

Connection Scheme

Wired connection

BUS TERMINATOR

RS-485 | CAN

D+ D- 0V +V | D+ D- 0V +V

QULON C

"5"/ PURPLE D+ (RS-485)
"6"/ GRAY D- (RS-485)
"3"/ WHITE NEUTRAL
"1"/ BLACK L IN

Terminal block
L
N

D+ (RS-485)
D- (RS-485)

NEMA connection

L IN

L OUT

D+ (RS-485)

D- (RS-485)

N

COMPATIBLE TO ANSI C136.41-2013

Alternative wire colours				
N	LIN	LOUT	D+ (RS-485)	D- (RS-485)
Blue	Brown	Yellow and green	White	Black

Accessories

Name	Product code
5-pin NEMA connection socket	ACC-CON-NEMA5
7-pin NEMA connection socket	ACC-CON-NEMA7
Street light arm mounting kit for cylinder shaped devices	ACC-MK-CB-LBRA
Pole/wall mounting kit for cylinder shaped devices	ACC-MK-CB-LP/W
Power cabinet mounting kit for cylinder shaped devices	ACC-MK-CB-ELCAB
Protective cap for cylinder shaped devices	ACC-PE-CL-LP/W

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