# Qulon Simpline
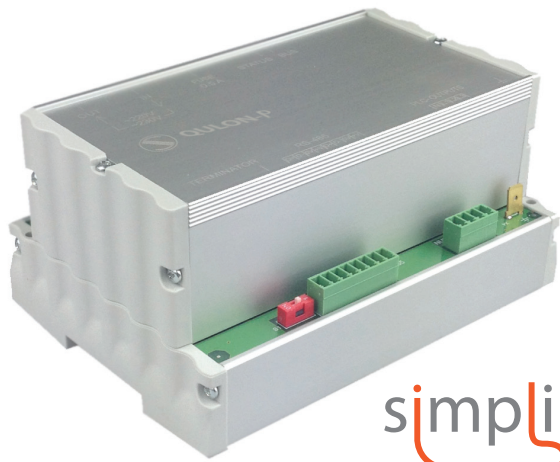## Individual control module for Powerline solutions

Qulon Simpline is additional module that provides individual remote light control of luminaires with installed PLC modules through power lines (PLC) using Sundrax's proprietary Simpline technology to communicate luminaire node controller with central gateway. Additional control wires are not required. Mounted inside existing lighting cabinet together with Qulon-C (Central Gateway). Connected to the central controller Qulon-C via RS-485 interface (ModBus). Acts as a master to send/receive data to/from PLC modules (slaves). It communicates with the slaves using PLC interface via existing power lines.

## Key Features

- Provides individual control and power regulation of discharge lamps with an electronic ballast and a built-in Simpline node
- Provides individual control and power regulation of LED lamps with a built-in Simpline node
- Connected to Qulon-C over RS-485 (MODBUS RTU)
- Full galvanic isolation of RS-485 interface
- Built-in power supply ~100-270 VAC

QULON Simpline

105

142

75

# QULON

QULON CCMS by Sundrax Electronics provide extreme performance and reliability for fail-proof individual remote control of any luminaire type bringing adaptive lighting and is increasing or dimming the lights on demand. Professionally tailored on CCMS collects various electricity data from lighting cabinet (current, power factor, cumulative power (kWh/kVAh), active and apparent power, voltages, etc) and then sends it to server via GSM/GPRS/EDGE mobile network. All the programming of central module of CCMS is done remotely from the software. All created on/off/dimming schedules are stored in it so all equipment can operate without internet connection.)
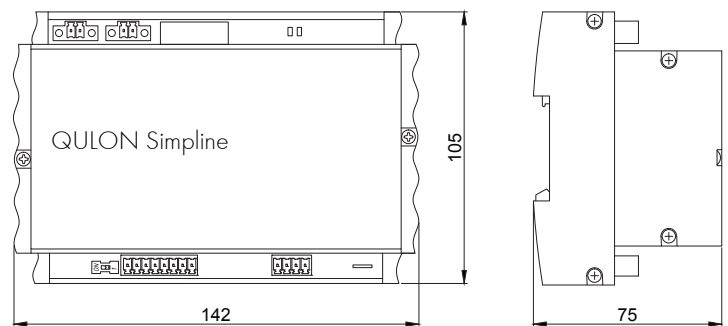
# Qulon Simpline
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## Technical Specifications

### Mechanical

- Housing: DIN mounted case (8 modules)
- Material: Metal, Plastic
- Dimensions, mm: 142(D) x 105(H) x 75(W)
- Mass: 0.45 kg
- Mounting: DIN-rail in the power cabinet

### Power & Electrical

- Input Voltage: ~100-270 VAC, 50/60 Hz
- Number of phases: 1-3
- Input Power (max): 5 W
- Mains Fuse: 0.5 A

### Environmental

- Operating Temperature: -40...+70°C
- Storage Temperature: -50...+80°C
- Operating Relative Humidity (max): 95%
- IP Rating: IP 20
- Certification: CE, RoHS
- Warranty: 36 Month (Return to base)

### Inputs / Outputs

- Max voltage at inputs: 250 V
- Connectors: Terminal blocks 15EDGV

### Interfaces and Protocols

- Serial interface: RS-485, PLC
- Max length of RS-485 line: 1500 m
- Communication with node: CENELEC EN 50065-1 (band C)

### Configuration / Indication

- Setup: Remote via Qulon-C
- Indication: LEDs for Power and RS-485 activity

### Package Contents

- Qulon Simpline module
- User guide
- Connectors kit

## Product Line

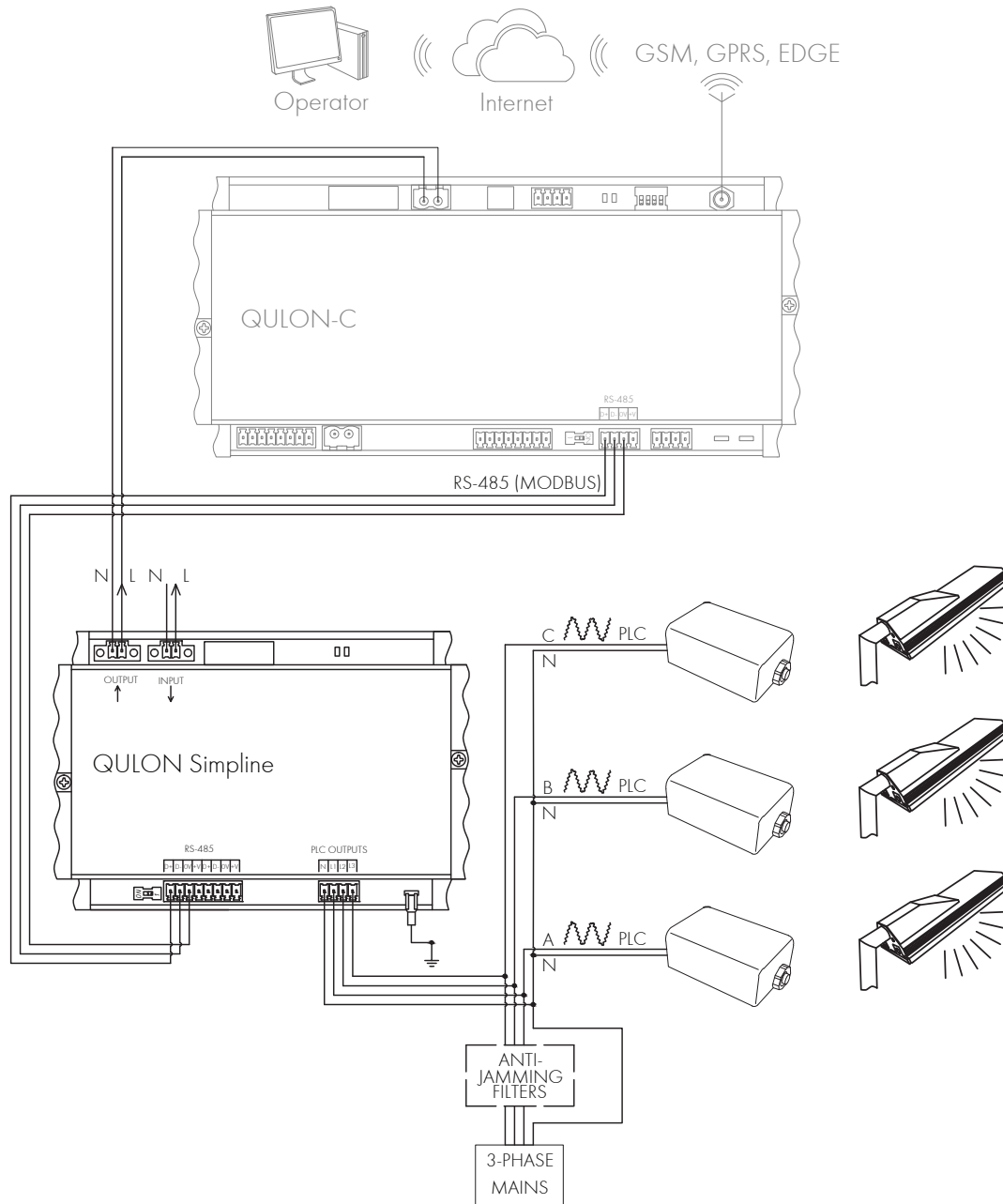| Name | Modification | Product code |
| --- | --- | --- |
| Qulon Simpline | | QUL-P-EXT-PWR |

# Qulon Simpline

Individual control module for Powerline solutions

## Connection Scheme



Operator     Internet     GSM, GPRS, EDGE

QULON-C

RS-485

RS-485 (MODBUS)

N L N L

OUTPUT    INPUT

QULON Simpline

RS-485     PLC OUTPUTS

C ⋀⋁ PLC
N

B ⋀⋁ PLC
N

A ⋀⋁ PLC
N

ANTI-JAMMING FILTERS

3-PHASE MAINS

## Accessories

| Name | Product code |
|---|---|
| Anti-jamming filter on Powerline, max load 20A | QUL-C-AC-FLT20 |
| Anti-jamming filter on Powerline, max load 40A | QUL-C-AC-FLT40 |
| DIN rail mounting kit | QUL-C-AC-DIN |

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