

# **LIGHT CONTROLLER FC-EN001**

**Version 1.0 (201809)**

## 1. PRODUCT DESCRIPTION

The FC-EN001 controller complies with the LoRaWAN specifications 1.0.1 Class C standard issued by the LoRa Alliance for easy and fast access to LoRaWAN networks. It has low power consumption, long transmission distance, strong anti-interference and so many other features.

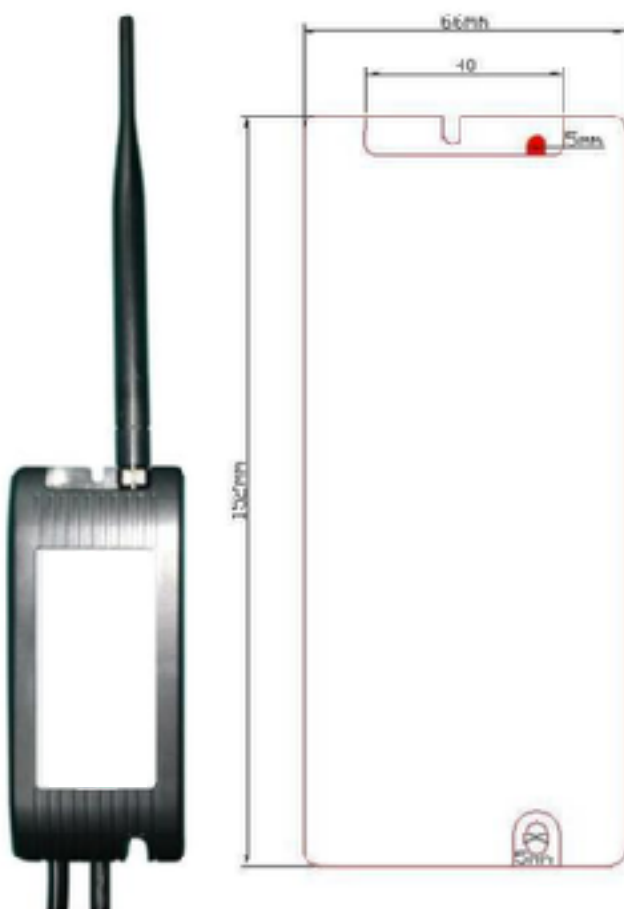
FC-EN001 street light controller contains current and voltage measurement circuits, which can collect the load status of street light controllers in real time, greatly reducing the work pressure of the street light management department, and improving the work efficiency, thereby significantly improving social energy-saving benefits.

FC-EN001 street light controller's main features:

- With current, voltage, power, electricity, frequency, temperature detection and other functions.
- One way switch and 0~10V dimming signal output function.
- Over-current protection, lamps condition detection and default lighting functions.
- Switch and the dimming suitable for lamps, such as LED lamp, high voltage sodium lamp and metal halide lamp etc.
- Overload protection design based on Security .
- Band: 433/470/868/915/923MHz
- Industrial temperature: -40 °C ~ +85 °C
- Easy and simple installation, can respond to the instructions sent by the center in seconds.

## 1. PRODUCT APPEARANCE

Length: 152 mm  
 Height: 35 mm  
 Mounting Holes: 5x7 mm



## 2. TECHNICAL PARAMETERS

Parameter	Parameter Value	Remarks	
1	Supply Voltage	AC 85V - 265V	
2	Dimensions	152 x 66 x 36 (mm)	
3	IP Grade	IP65	
4	Output Rated Current	5A	
5	Dimming Type	0V - 10V / PWM	Optional
6	Product Output	Single - Phase Communication	
7	Data Collection	U,I,P,Q,COSΦ	
8	Transit Power	20dBm±1dBm (max)	
9	Sensitivity	-136dBm±1dBm (@SF=12)	
10	Antenna Gain	3 DB	
11	Antenna Standing Wave	2.0	
12	Antenna Type	External	

### 3. INSTALLATION REQUIREMENTS

Rain, positive pole and negative pole connected in a contrary way shall be avoided for the installation and placement of FC-EN001 series single-lamp controller. Antenna should be avoided breakage, loss and contact with the lamppost or lamp shade and so on. FC-EN001 series street .

Light controller shall be installed fixed, with the scratch and insulation damage of the line avoided.

#### Wiring Method

