



LIGHTING CONTROLS

WOM

Wireless ON/OFF & 0-10VDC Module

WIRELESS SYSTEM

Overview

The Wireless ON/OFF Module includes the 1EA of 10Ampere Latching Relay and it is consist of International Standard IEEE802.15.4 ZIGBEE communication. Several LED fixtures can be grouped together to turn On/Off wirelessly at once and if necessary, send out the 0-10VDC signal to control the Dimming of LED Fixture.

Main Feature

- International Standard IEEE 802.15.4 ZIGBEE Communication.
- The Max. 254EA of Gateways have Stand Alone Function.
- The Max. 127EA of AG(Access Group).
- Less than 5EA of actual AG configuration.
- The one Gateway(WG) is configured within 5EA of AGs, and one AG is designed with 64EA Wireless Dimming Modules.
- The LED Fixture Load control up to 10 Ampere circuit.
- 100% Dimming by the 0-10VDC Signal.(1 - 254 Steps)
- It has the Self-Diagnosis function to indicate the status of dimming output error & communication error.



Application

- Applied at Office area
- Applied at Underground Parking Lot area
- Applied at Conference Room
- Applied at Hallway and Lobby area
- Applied at Class room and Restaurant area
- Applied at Office Building, Shopping Mall, Hotel, Residential Complex, Terminal and Public Area to be as efficient management system for Lighting & Black-out.
- Dimming Scene Control for LED Lamp's Individual & Group.
- The Auto LED Dimming Control due to external Photo.
- The LED Dimming Control due to Movement Detecting Sensor.
- The Installation is easy due to Wireless Communication and the Maintenance is convenient
- By the Self-Diagnosis Function, the Maintenance is convenient
- The various function is taking advantage due to actual installation of the operating experience.

Specification

1.Hardware Function & Structure

- 220VAC Power Supply.
- Operating Part : Relay ON/OFF control part, 0~10V Dimming Control part, Current Sensing part.
- MCU : ZigBee Core Processor.

2.Power

- Input Power : AC220V, 60Hz
- Operating Power : DC12V, 3.3V, and Other power.
- Operating Part : Relay ON/OFF control,

3.Setting

- Address Setting : 1~64.
- Dimming Control (0~10V) - 1CH Support.
- Latch Relay (16A) - 1EA Internal.

4.Operation Environment

- Operation Source : 220VAC (+-10%), 60Hz.
- Operation Condition : 0 ~ 60°C, 0 ~ 90% RH.

5.Communication Method

- ZigBee Network : (IEEE 802.15.4).

Basic Function

- The Address of each Wireless Module is set in order of Gateway > Access Group > WDM.
- The LED FLASH ON/OFF for Warning & Checking Circuit Function
- Self-Diagnosis Function : Communication Error, Dimming Output Error, Group Info, Scene Info and Sensor Enable or not)
- Relay ON/OFF Control.
- Group Feeder ON/OFF Control.
- 0 ~ 10V Dimming Control (0~100%).
- Address Setting : 1~64.

Connection Diagram

