



Overview

4eRM is the RELAY ON/OFF Control Module and it performs the function for Relay's ON/OFF control & display the operation status. It connects through ETLC Communication with SCU and through the ETLC protocol, it performs the schedule, ON/OFF operation, ON/OFF status display, Relay Group Control and Sunset/Sunrise Control. It stores the Operation Log of the Relay & data for Run-Time. Especially, this 4eRM is internal with 4 Latching Relay inside of Relay Module. It is adopted the current sensing IC for each Relay's ON/OFF feedback.

Main Feature

- The Usage is accumulated by Daily and Monthly
- It stores the Energy usage and reporting (Save for 16 month and 32 days of maximum dates)
- The LED Status indicators that display the each LED.
- The LED Flick is able when Relay Fail.
- The Enable/Disable is possible for Demand Control Function.
- Data Line is connected at Full 2- Wire Bus
- The Control is able when operating for Down Load & modifying of Database.
- The each Control Panel is able for Global Stand Alone function.
- It keeps working even when the central monitoring system is not working.
- The Current Sensing is able through internal of 25A Latching Relay.
- Up to 1,000 EA is able to connect at one SCU (Communication Device).

Operation

The Relay Module is connected up to 999EA at one SCU and it performs the interlocking control for each program. The each Relay Module is designed as combined structure of Control Board, Relay Operation Board and Communication Board integrally. When you pulls out from case cover, there will be data communication connection terminal and two sensor input terminal. The Relay is installed inside of Relay Module. The current sensing circuit is ready for monitoring the status. It is able to monitoring the Current & Status.



- The High-Voltage & Low Voltage line is hidden inside of case cover to organize the cable neatly.
- The 20 Ampere Latching Relay that has the on-site operational ON/OFF switch is installed at Din-Rail type without separate cable.
- The large and small size of various project for application is possible by new design and compact design.

Networking

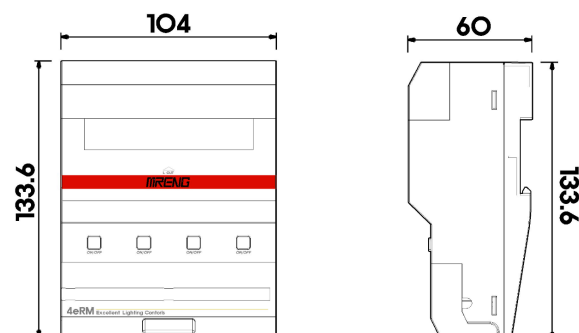
The Relay Module is connected with Full 2-Wire communication method. Also when installing the Relay Module at Up and Down position, there is the passage way to connect the Up and Down Data-Line. The Data-Line cable is handled neatly.

Specification

- 4EA - LED Status Indicators
- 4EA - 25 Latching Relay(TV-8 Inrush Current 100A)
- Full 2-Wire Communication
- Address Setting : 1-999
- 32Bit Stand Alone Processor
- 2EA - Digital Input
- Operation Condition : -10 ~ 60°C
- AC/DC24V, 50/60Hz, 7VA



Dimension of Layout



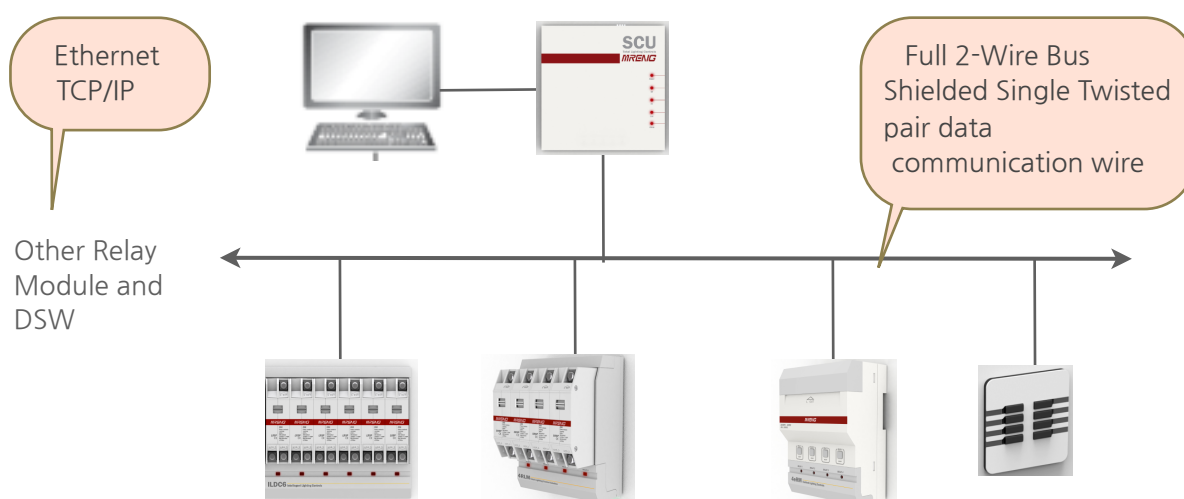


LIGHTING CONTROLS

4eRM 4 economic Relay Control Module

ELC SYSTEM

System Diagram



Each Max. 999개 for Each Relay Module (6sRM+6eCSM, 4sRM, 4eRM)
Each Max. 999개 for Data Line Switch(DSW4, DSW8, TS4, TS8, STS, SWS)
Each Max. 999개 for DALI Master & 255개 Wireless Gateway

Connection Diagram

