

# SCU (System Communication Unit)

## Product Overview

SCU is the device for Data Communication between PC and Lighting Control Panel. Set the DATABASE for each of Lighting Control Panel, Switch, Sensor and DALI Master to create the each Program and execute work to start the Data Transmitting through this SCU.

The Low Level Communication Line of Lighting Control Panel is configured with ETLIC BUS and High Level of Communication Line that goes to PC is configured with Ethernet TCP/IP. The LED that indicates the STATUS of Power, Data Communication is located at front side to notify the Data Communication and Lighting Control Panel's Real-Time Status.



## APPLICATIONS

- SCU is located at Central Monitoring Room to execute the Real-Time Monitoring and Control Communicating between PC and each Lighting Control Panel.
- SCU is connecting the communication between High Level and Low Level Communication.
- The Low-Level Communication is configured with FULL 2-WIRE BUS and 1,000 EA of Switches and each of Lighting Control Panels can be connected to operate for each.
- The High Level is connected with Ethernet TCP/IP Communication basically to operate. If necessary, the MODbus and BACnet Communication is possible and it is easy to Interface.
- The setting of Schedule Control, Interlocking Control and Relay Group Control is operating the Protocol Communication Conversion between Low-Level ELC Communication Network and High-Level Universal Communication (Ethernet).
- The STAND ALONE Function without PC (When Downloading after setting with PC : the Low-Level Device has the Schedule Info, Group Info and Interlocking Info.)

## Major Feature

- The Powerful Data Communication that connected with Full 2-Wire Bus Data-Line : It maintains the reliable of Data Communication even at poor Communication Condition such as non-grounding and induction.
- The LED Status Indicators that display the Status of System.
- The Control is continuously operated when downloading and modifying the Database and Programming .
- The Interlocking Program for each Control Panel is continuously operated even when the Central Monitoring Program is fault by the Global Stand Alone Function.

## Control Function

- Display the Status and Relay ON/OFF Control.
- Photo Control and ON/OFF Control for DALI System.
- Group, SCENE and Interlocking Control.
- Schedule Control and Sunrise/Sunset Control.
- ON/OFF Control by Data-Line Switch.
- It has Transmitting Function by creating each Program.

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## SPECIFICATIONS

### 1. HARDWARE Function and Structure

- LED Status Indicators : Power, ETLC Link, Data Status, On Line, Alarm
- Connection for PC : Ethernet TCP/IP, MOD Bus, BACnet
- 3EA – DATALINE PORT
- MCU : 32bit Arm Processor(coreTex –M3) Type

### 2. Power Supply

- Input Power : AC220V
- Operating Condition: DC 12V, 5V, 3.3V and Other Power

### 3. Setting

- IP / GATEWAY / NETMASK / PORT SETTING

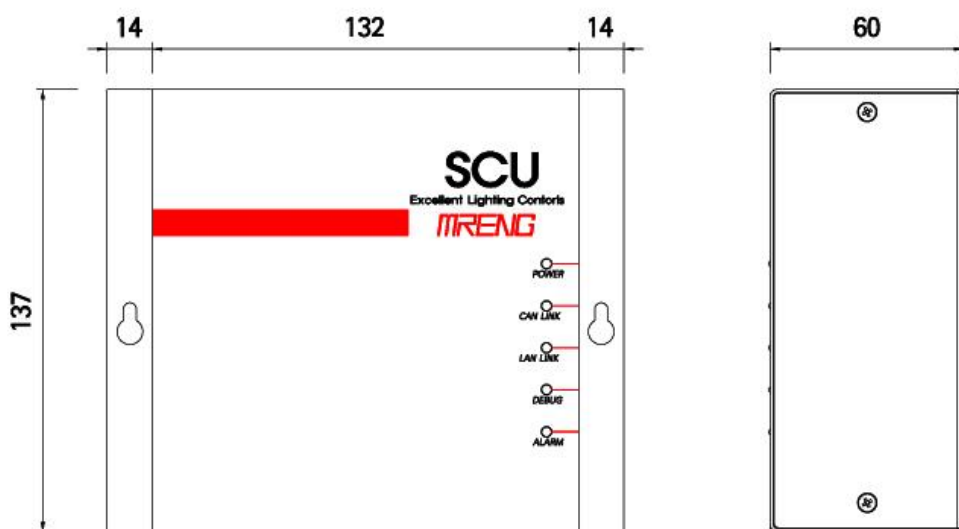
### 4. Operating Condition

- Operation Condition : 0 ~ 60 °C 0~90 RH

### 5. Communication Method

- High : Ethernet TCP/IP
- Low : ETLC NETWORK( FULL 2-Wire Communication)

## DIMENSION



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## CONNECTION DIAGRAM

