





DALI Controller



Features

- · DALI-2 multi-master controller
- · 2 independent DALI Bus channels with built in DALI power supply (up to 250mA per bus)
- Connect up to 2×64 DALI control gears and 2×12 input devices
- Max 16 scenes and groups setting per channel
- OLED display, LED indicators and buttons for local operation
- Built in with 250V/5A(×4) relay
- · Easy installation and configuration via DLC-02 software
- Effect setting with timer events and input devices
- Up to 255 timer events
- Support 8 sequences schedule up to 16 steps per sequence
- Support DALI-2 devices with Part 207/209/301/302/303/304
- Support DT8 colour control(Tunable white,RGBW,xy-coordinate)
- · Built in with Modbus TCP/IP protocol
- 5 years warranty

- Applications · Office lighting
 - Smart home lighting
 - · Luxury villas lighting
 - LED indoor lighting
 - · Human centric lighting control
 - · RGBW lighting control
 - Building automation system

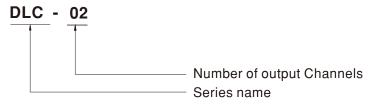
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

DLC-02 is a multi-master controller to obtain the regulation of the DALI-2 system from DALI input devices and control gears to make a DALI lighting system. Devices in the DALI bus can be scan, configure and setting through the DLC-02 software. DLC-02 supports up to 128 DALI participants via two independent DALI Bus. The DALI Bus power supply comes directly within DLC-02, so no additional DALI power supply is required. This device comes in 4 built-in relays, providing switching possibilities for home applications and non-dimmable lighting. In addition, DLC-02 is also integrated with several features. The Effect function allows users to customize a series of events and function of input devices. Thanks to an embedded battery, time is memorized even AC is lost. The clock of DLC-02 can be synchronized in real-time; therefore, the regular events and actions can be scheduled by the Timer function accordingly. In addition, the built-in Modbus TCP/IP protocol is very flexible to adapt with other manufacturers' control software.

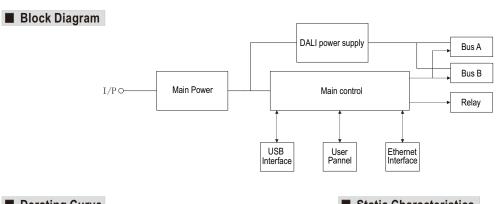
■ Model Encoding



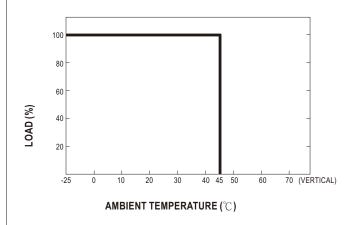
SPECIFICATION

| MODEL | | DLC-02 |
|--------------|--|---|
| ОИТРИТ | BUS VOLTAGE | Built-in DALI bus power supply; Voltage range : 2x16V |
| | GUARANTEED SUPPLY CURRENT | 2x240mA |
| | MAXIMUM SUPPLY CURRENT | 2x250mA |
| | RATED POWER | 7.68W |
| | SETUP,RISE TIME | 250ms/115VAC,50ms/230VAC |
| INPUT | VOLTAGE RANGE | 100~305VAC, 140~430VDC,(class II) |
| | FREQUENCY RANGE | 47~63Hz |
| | AC CURRENT(Typ.) | 0.5A/115VAC 0.25A/230VAC |
| | INRUSH CURRENT(Typ.) | COLD START 45A/230VAC |
| PROTECTION | SHORT CIRCUIT | Short circuit delay 0.7S shutdown,Restart period 5S, Retry time 0.7S |
| FUNCTION | USB INTERFACE | 1 USB slave connector , type-B |
| | DISPLAY | OLED display for easy operation |
| | INDICATOR | 2*LED indicators for BUS voltage; 4*LED indicators for relay ;1*LED indicators for power on. |
| | GENERIC SETTING | Three buttons(MOVE, SET,ESC) on the front panel to set and view settings |
| | Ethernet | Control via Modbus TCP/IP protocol (RJ-45) |
| | Relay | 10A/125VAC ,5A/250VAC |
| ENVIRONMENT | WORKING TEMP. | -25 ~ +45°C |
| | WORKING HUMIDITY | 5 ~ 93% RH non-condensing; comply with climatic EN50090-2-2 |
| | STORAGE TEMP., HUMIDITY | -25 ~ +70 $^{\circ}$ C , 10 ~ 95% RH non-condensing |
| | VIBRATION | 5 ~ 150Hz, 2G 12min./1cycle, each along X, Y, Z axes according to EN50090-2-2 |
| SAFETY & EMC | SAFETY STANDARDS | Compliance to BS EN/EN61347-1, BS EN/EN61347-2-11 |
| | DALI STANDARDS | Compliance to BS EN/EN62368-101,BS EN/EN62386-103 |
| | EMC EMISSION | Compliance to BS EN/EN55015, Harmonic current class A |
| | EMC IMMUNITY | Compliance to BS EN/EN61547 |
| OTHERS | MTBF | 618.9K hrs min. Telcordia SR-332 (Bellcore) ; 190.1K hrs min. MIL-HDBK-217F (25° C) |
| | DIMENSION | 144*90*58.3mm (L*W*H) |
| | PACKING | 0.43Kg; 30pcs/13.9Kg/ 1.30CUFT |
| | DIN RAIL MOUNTING | 35 mm rail ; 8 units wide |
| | ENCLOSURE MATERIAL | ABS-V0 |
| NOTE | Maximum allowable DA The maximum allowable For example , if 64 cont If the specific power cor The devices may be o | ecially mentioned are measured at 230VAC input and 25°C of ambient temperature. LI driver is 64 control gears per channel. e input device depends on the connected DALI drivers and the current requirement of input device. rol gears is connected, the maximum driver current available in the DALI bus is 250mA-(2mA×64)=122mA. Insumption of an input device is 10mA then the maximum of input device should be 12 pcs. perated only up to 2000m(6500ft). The control of the |

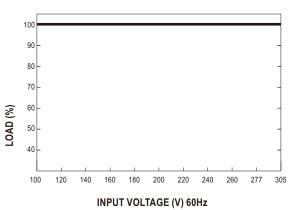




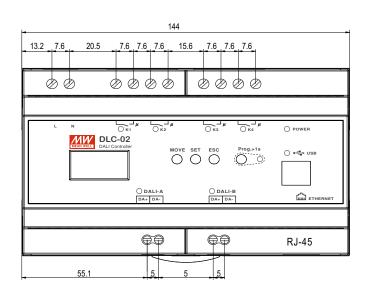
■ Derating Curve

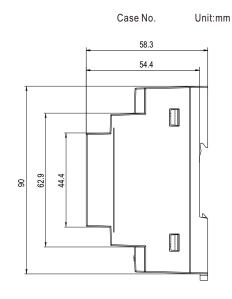


■ Static Characteristics



■ Mechanical Specification





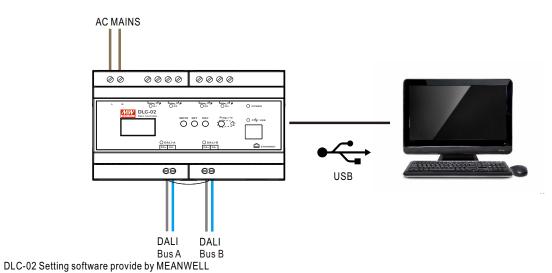


ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

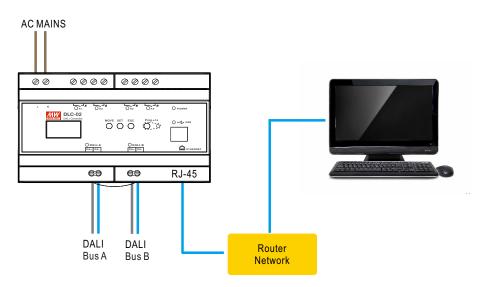


■ Program Setting

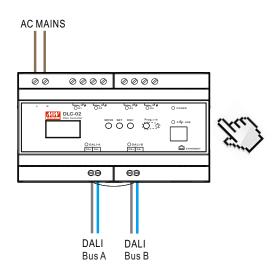
© Comission through DLC-02 software



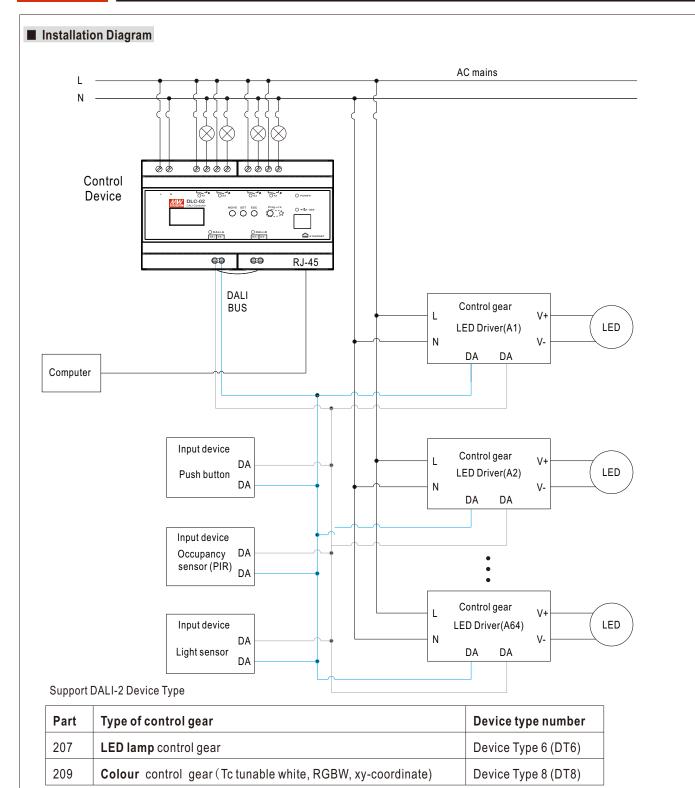
© Controlling DALI devices via Modbus TCP/IP protocol



O Local setting





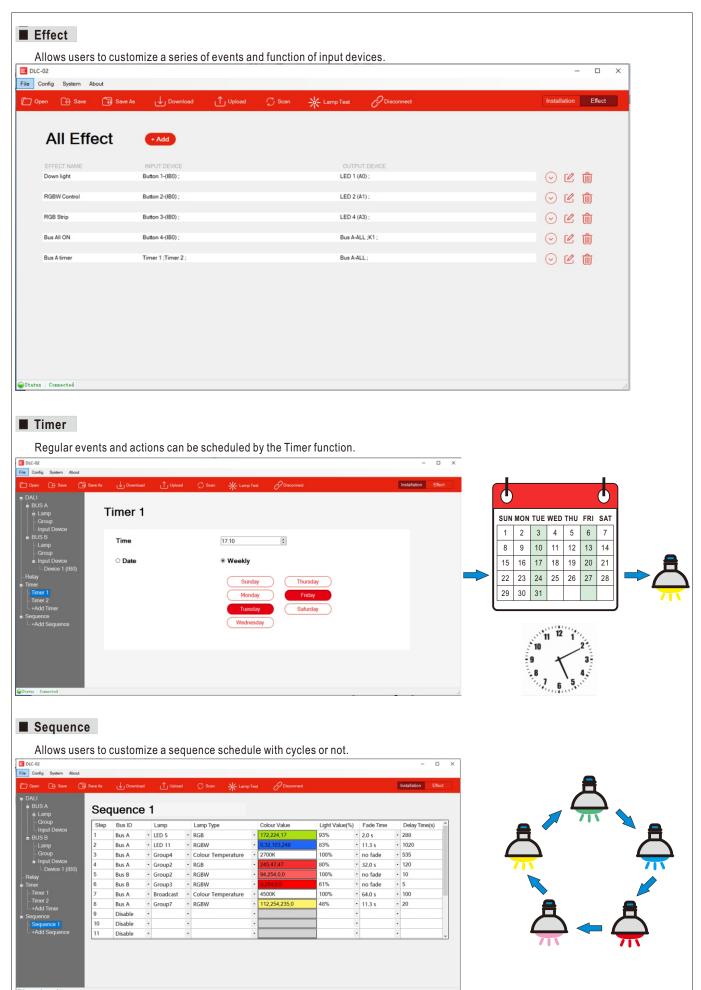


| Part | Type of input device |
|------|----------------------|
| 301 | Push-button input |
| 302 | Slider input |
| 303 | Occupancy sensor |

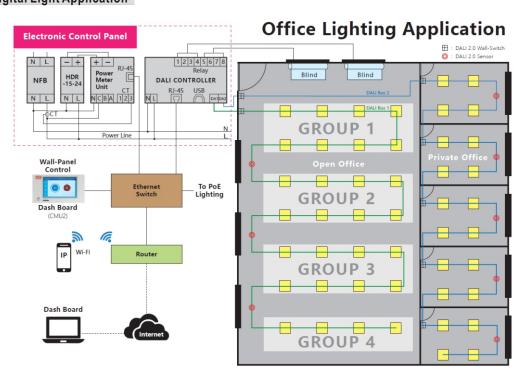
Light sensor

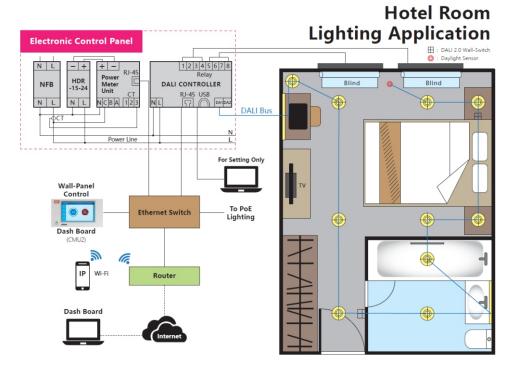
304





■ Digital Light Application





■ Recommended Screwdriver, Wire and Torque Setting

- 1.Screwdriver(Width*Thick):Slotted screwdriver 2.5*0.4~3.5*0.6
- 2.Wire:1~2.5mm² solid core or 1~2.5mm² finely stranded
- 3.Torque:0.8Nm

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html

■ Configuration and Commissioning

The DLC-02 software can be downloaded via http://www.meanwell.com/productCatalog.aspx