

ORANGE TEK

DOT

Model: 1~10V



- Digital type, high accuracy
- APP GUI setting
- One output port for LOAD ON/OFF
- 1-10V dimming signal, Duo output
- According to the RTC to adjust the brightness

Specifications and manuals



Important: Information contained in this manual is subject to change, Users no longer notice. Content provided for informational purposes only. If an error or omission, Whichever is the latest version of the specification .

Revision : DOT-2015-001E

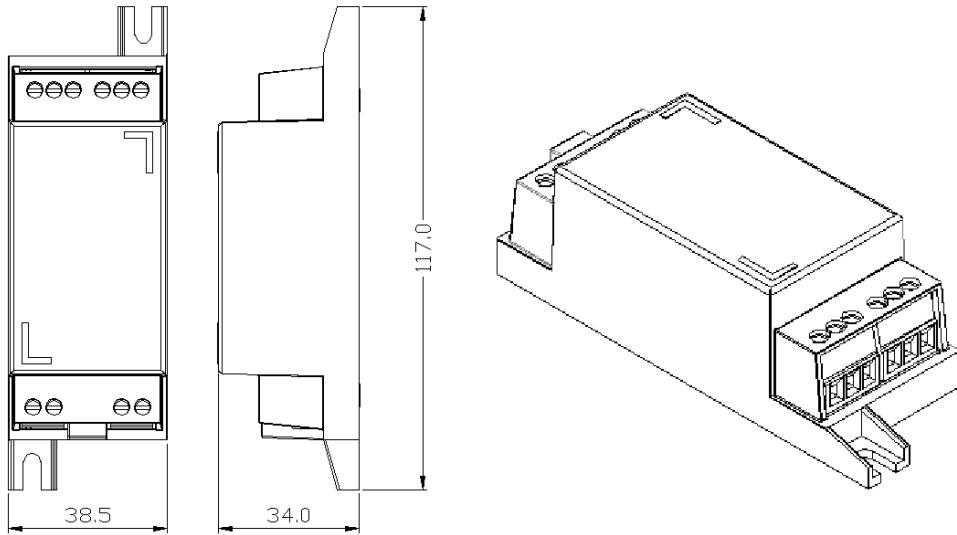
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Physical Specifications

Exterior Dimensions

◆ 117.0 mm(L) x 38.5 mm(W) x 34.0 mm(H)



Box Material

◆ PC/ABS (UL94-V0) 、 NYLON66 (UL94-V0)

Terminal Block Specifications

- ◆ Maximum voltage/current : AC300V(CUL)AC250V(VDE)/16A
- ◆ Available wire diameter : 26 ~ 12 AWG
- ◆ Body material : Polyamide66 (UL94-V0)
- ◆ Terminal Material : Steel(Ni plated) 、 Brass(Tin plated)
- ◆ Screw : M2.6 , Steel(Ni plated)
- ◆ Negative torque screw lock : 7.0lb-inch
- ◆ Safety Certification : UL(E167040) 、 CUL 、 VDE

Electrical Specifications

Basic electrical

- ◆ AC in : AC 100V ~ AC 240V
- ◆ AC in frequency range : 50Hz / 60Hz
- ◆ Standby power consumption : < 1W
- ◆ LOAD Maximum current : 3A
- ◆ LOAD output voltage : Same as AC in
- ◆ Operating temperature range : -40°C ~ +55°C
- ◆ Storage temperature range : -40°C ~ +70°C

Other specifications

- ◆ Relay elements switch life : More than 100,000 times
- ◆ Backup battery specifications / life : CR1220 / 5 year

The control signal output specifications

- ◆ DC 1~10V Dimming signal

Note:

A total of two output signals, dimming percentage of the two groups are the same as the output signal.

Instructions

Input / Output Terminal Description

AC in	
L	N

◆ AC in : AC power input.

LOAD	
L	N

◆ LOAD : Output control the Load power ON / OFF.

Signal		
V+	S	V-

◆ Signal : Signal connection to DOT Programmer Dongle.

Dimming		
+	+	-

◆ Dimming : Dimming signal output.

Function Description

Adjust the brightness according to the time value(1-10V output to adjust the brightness)

Based on the setting schedule to do brightness control, to adjust the brightness difference at different times, and schedule the minimum unit interval of 10 minutes, flexibility in the use, to achieve energy saving goal.

CLO function(Current compensation)

Lamps operate on the basis of the total time to do current compensation, adjust the output signal of the percentage is based on the cumulative time lighting power to the cumulative sum of time to reach after prolonged use, the lamp brightness decay compensation.

Daylight saving time function (Applicable to the United Kingdom)

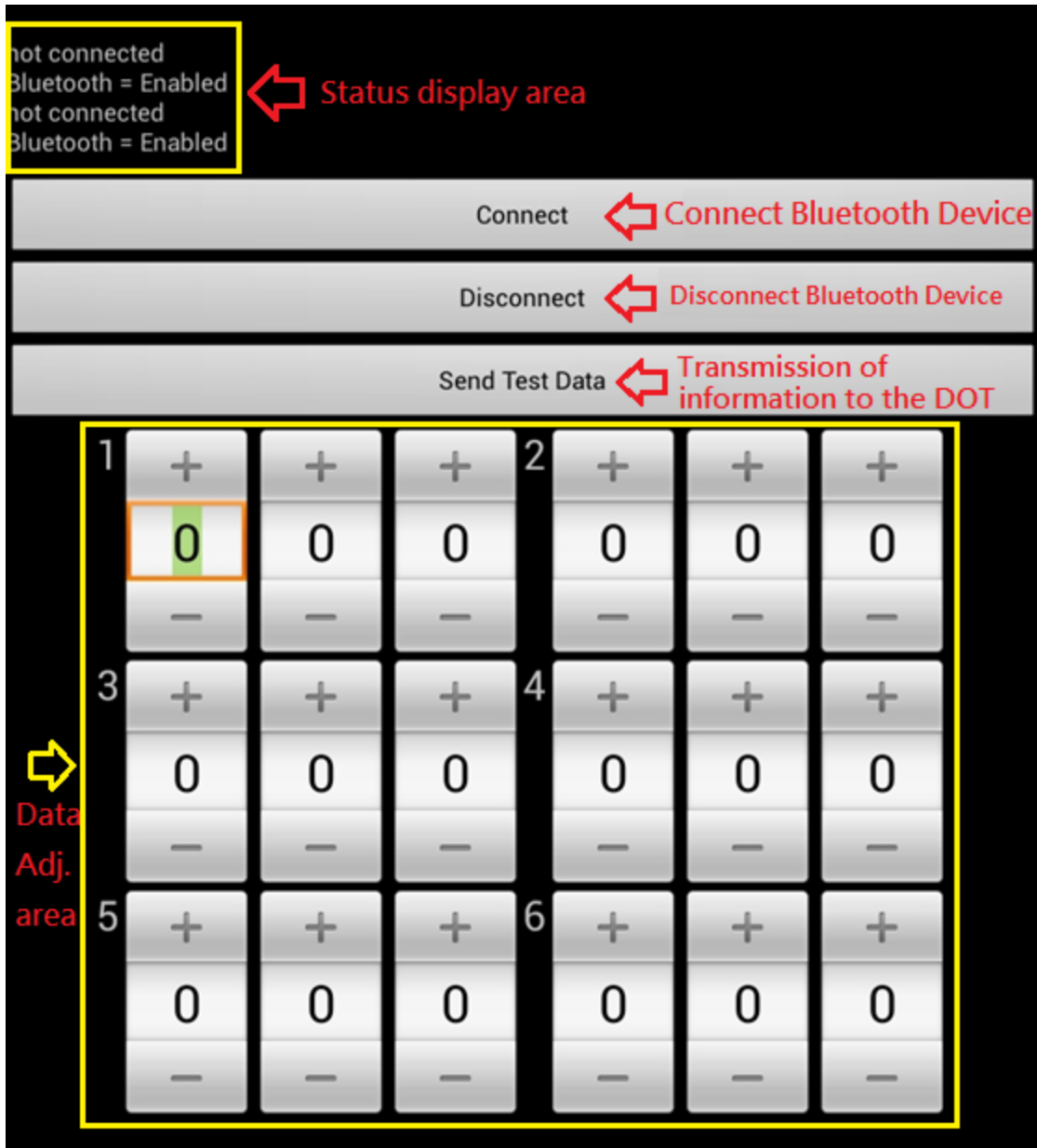
Britain has provided for daylight saving time function, to comply with local regulations and habits, if not to use this feature can be turned off via the settings.

Tablet PC uses software to edit and set (Needs through DOT Programmer Dongle)

Scheduling and editing schedules, can be operated through the APP software, intuitive operation screen, you can easily complete the setting.

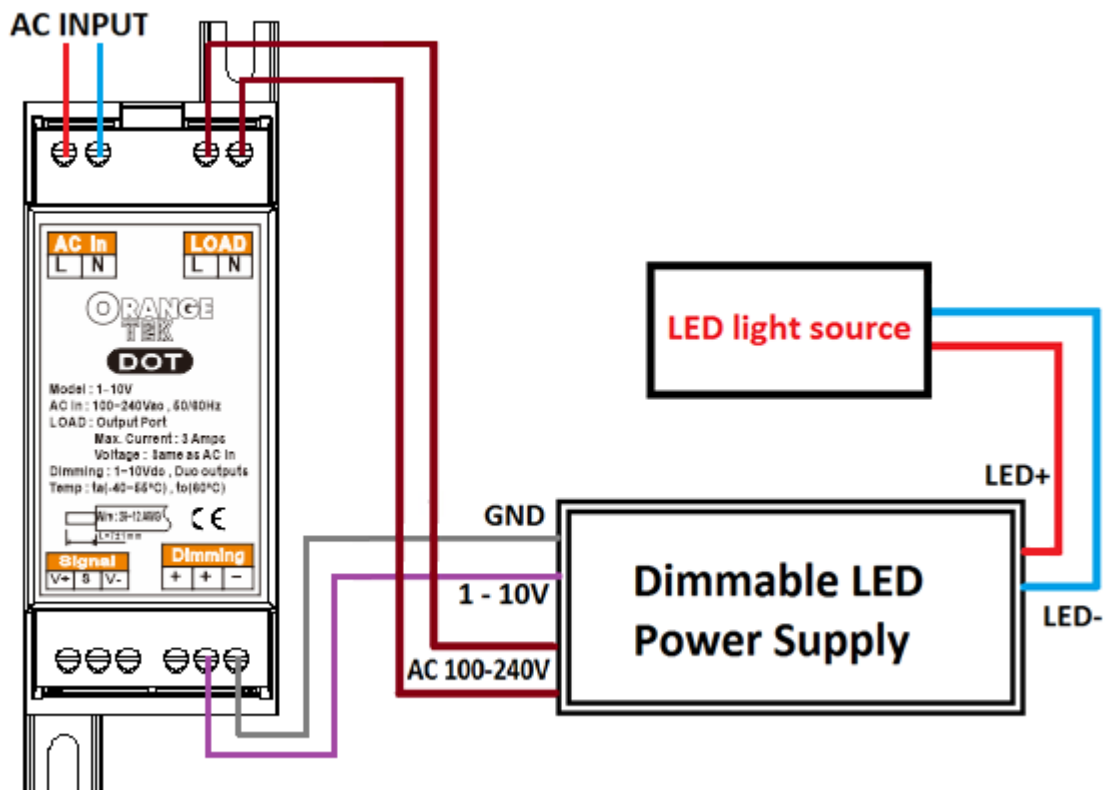
* See Resources wiring - wiring examples (with Dongle connection)

APP Software Function



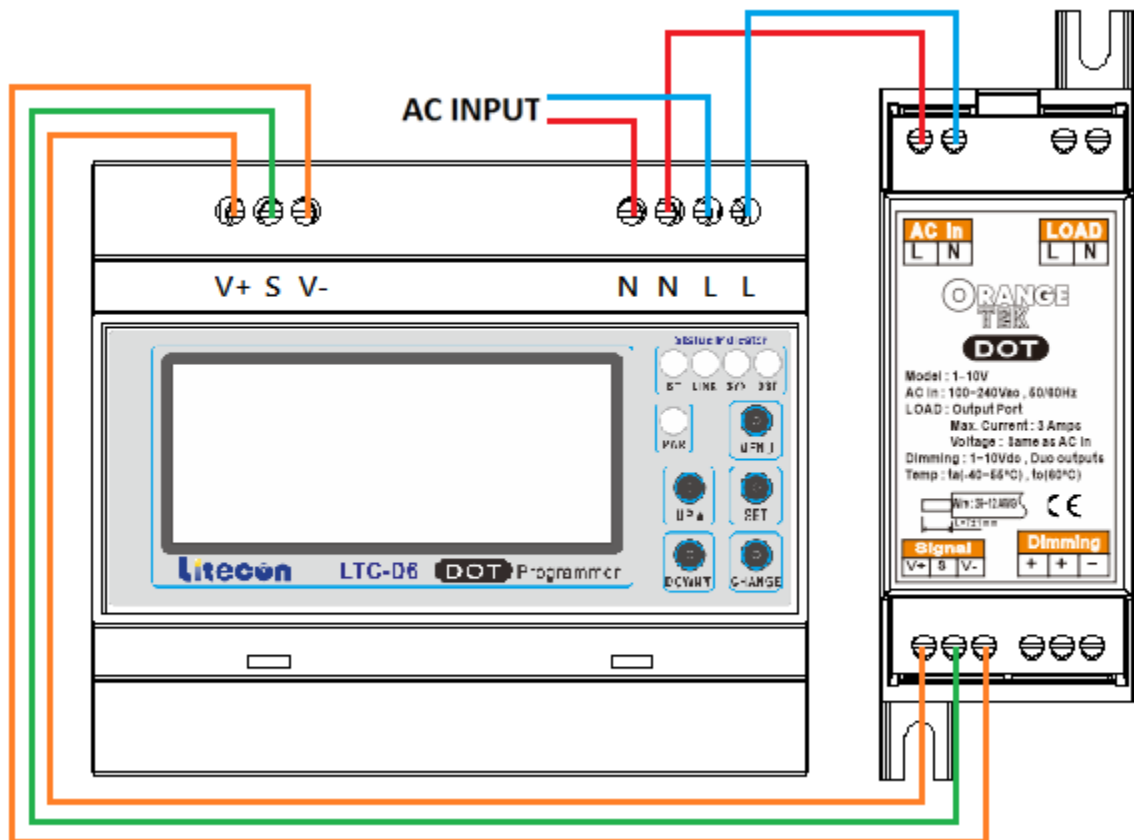
Appendix A

Wiring example (with POWER connection)



Appendix B

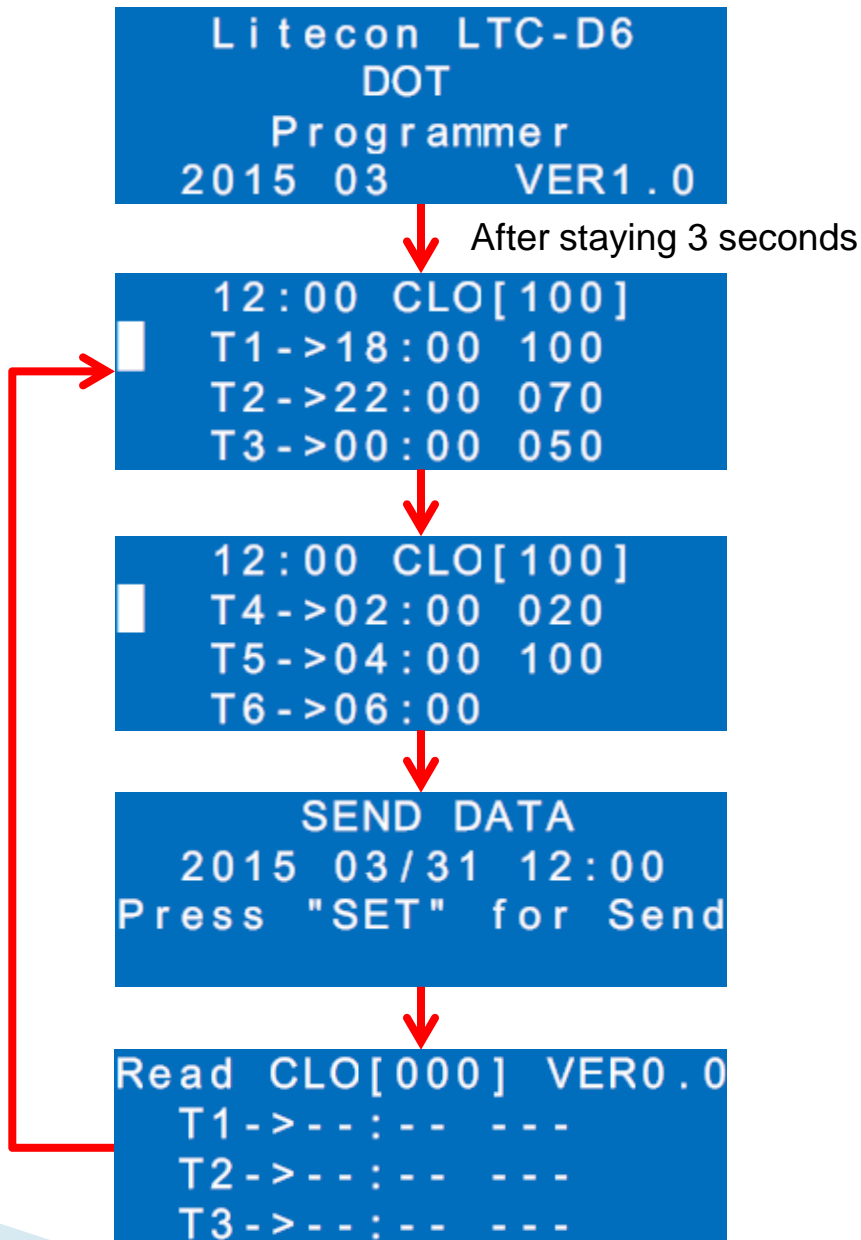
Wiring example (connected Dongle)



Appendix C

Dongle Instructions-MENU

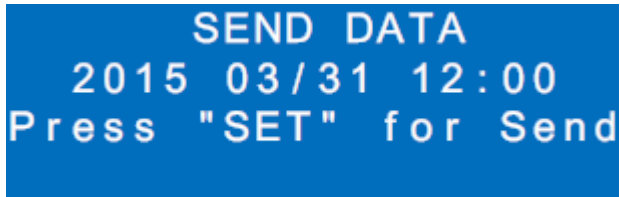
Press MENU Switching the main screen of each function



Appendix C

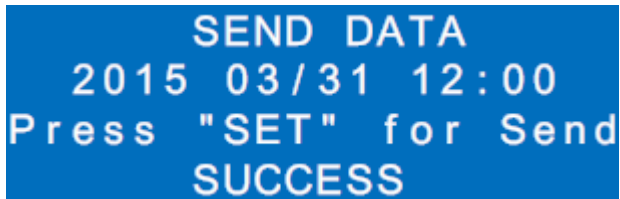
Dongle Instructions-Send data to DOT

STEP 1: Press MENU switch to the SEND DATA screen.



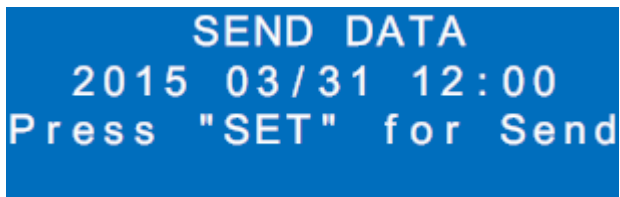
```
SEND DATA
2015 03/31 12:00
Press "SET" for Send
```

STEP 2: Press SET ,Screen appears SUCCESS, said the transmission.



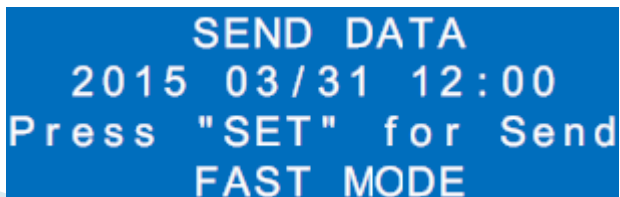
```
SEND DATA
2015 03/31 12:00
Press "SET" for Send
SUCCESS
```

STEP 3: SUCCESS, after screen disappears, transfer is complete.



```
SEND DATA
2015 03/31 12:00
Press "SET" for Send
```

NOTE: In SEND DATA screen, press DOWN ,DOT will start acceleration mode.



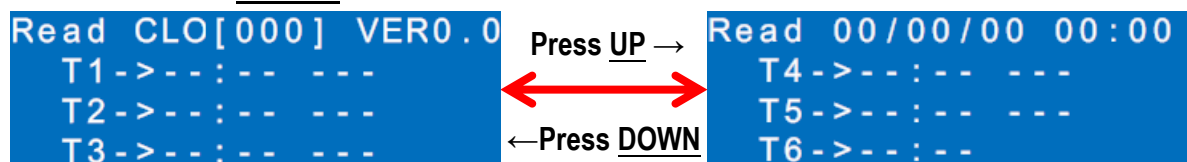
```
SEND DATA
2015 03/31 12:00
Press "SET" for Send
FAST MODE
```

※ DOT acceleration mode when start, DOT is no longer controlled by the Dongle, is required to restart with AC power on/off again for lifting the DOT acceleration mode.

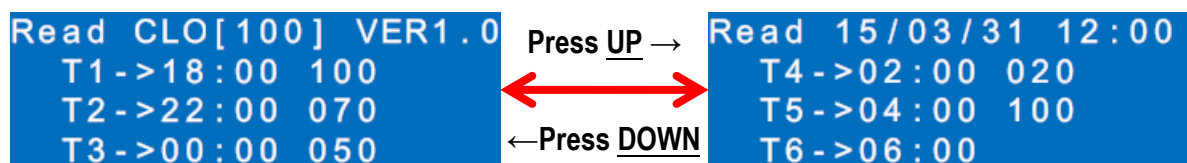
Appendix C

Dongle Instructions-Read the data back to the Dongle

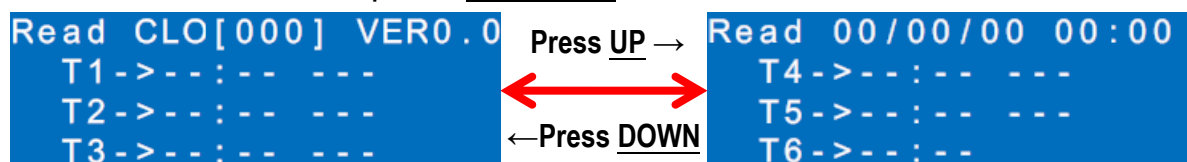
STEP 1: Press MENU , Switch to the Read screen.



STEP 2: Press SET ,About 1 second, you can see the data read back.



NOTE: In Read screen, press CHANGE ,You can clear the data.



Appendix C

Dongle Instructions-Use the button to edit time data

STEP 1: Press MENU to switch to the list screen time.

```
12:00 CLO[100]  
T1->18:00 100  
T2->22:00 070  
T3->00:00 050
```

or

```
12:00 CLO[100]  
T4->02:00 020  
T5->04:00 100  
T6->06:00
```

STEP 2: Press SET , The screen will appear flashing digital, That has entered edit mode. Press UP or DOWN, You can increase or decrease the value of the flashing digit number, After the adjustment is completed, Press CHANGE , This information can be the end of the current editor, Continue to edit the next piece of data, All editing is complete, Press MENU , End edit mode.

```
12:00 CLO 100 Flash  
T1->18:00 100  
T2->22:00 070  
T3->00:00 050
```

Appendix C

Dongle Instructions-Dongle time correction

STEP: Operating APP Software, If properly connected Dongle, Time will update immediately, Dongle time updates to the Tablet PC is the present time.

Supplement

NOTE 1: Dongle Bluetooth ID, Check the sticker on the bottom right information.



※ Paradigm pictures, each may have a different Dongle Bluetooth ID.

NOTE 2: Operation panel buttons and lights.

Indication Descriptions :

BT → Bluetooth status lights.

LINK → DOT & Dongle linking status lights.

DST → Lights that automatically operate in daylight saving time.

PWR → Dongle is powered lights that.

