

TD1-4SH, TD2-4SH, TD3-4SH, TD4-4SH, TD5-4SH

DALI

Wall Mounted Touch Panel

4 zone 1-5 color DALI master touch panel series is used to control DALI DT6/DT8 devices and can be widely applied in schools, retail, hospitals and offices.



TD1-4SH
Single color

TD2-4SH
Dual color

TD3-4SH
RGB

TD4-4SH
RGBW

TD5-4SH
RGB+CCT

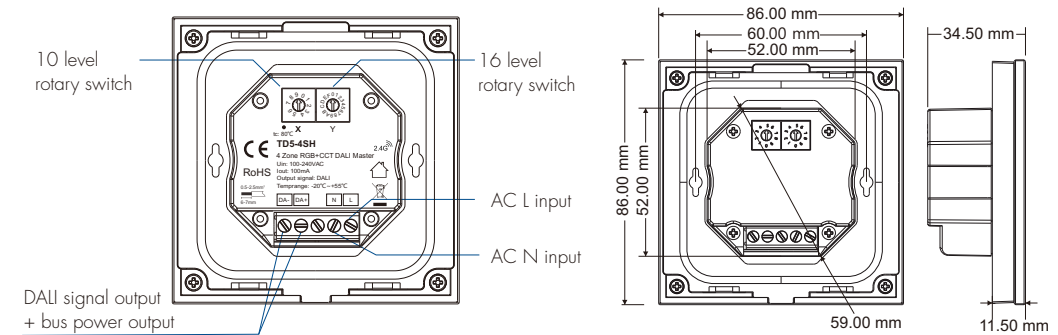
Features

- 4 zone control, 4 DALI address, support DT6 dimming, DT8-TC color temperature, DT8-RGB or DT8-RGBW.
- Can be used as a power supply for DALI bus.
- Conforms to DALI standard protocol IEC 62386, compatible with other brands of DALI products.
- Enable to set DALI address by encoding switch, support unicast, group and broadcast mode, also support slave DALI address assignment.
- Enable to set DALI address by encoding switch, support unicast, group and broadcast mode, also support slave DALI address assignment.
- Match with RF 2.4G four zone remote control optional.
- Ultra sensitive high strength glass touch panel with touch color slide.
- Smooth and accurate color adjustment by touching the color slide.
- 3 scenes memory.
- When touch the key, the LED indicator will flash.
- White & Black glass panel available.

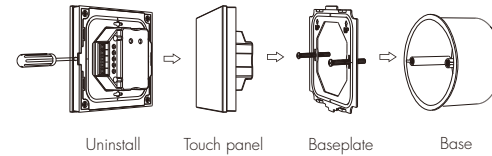
Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	100-240VAC	Input signal	Touch key + RF 2.4GHz	EMC standard	EN IEC 55015/ EN IEC 61547 ETSI EN 301 489-1/-3
Output voltage	16VDC	RF Control distance	10m(Barrier-free space)	Safety standard	EN 61347-1/-2
Output current	100mA	Dimming level	256 levels	Certification	CE RoHs
Output signal	DALI	Dimming range	0-100%	Warranty	5 years
Environment		Package			
Operation temperature	Ta: -20°C ~ +50°C	Size	L112 x W112 x H50mm		
Case temperature (Max.)	Tc: +80°C	Gross weight	0.230kg		
IP rating	IP20				

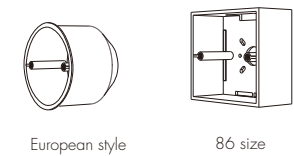
Mechanical Structures



Panel installation diagram:

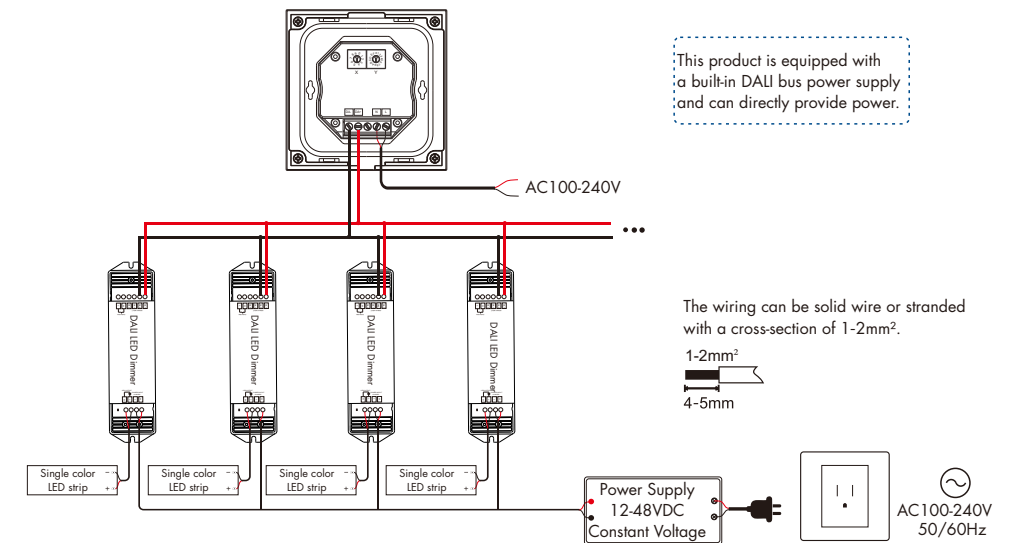


Typical base as below:



CE RoHS

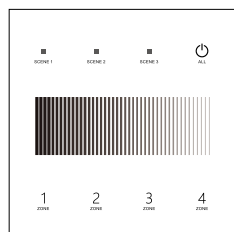
Wiring Diagram



Note:

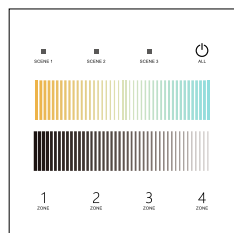
1. The max. cable length of the DALI control cable must not exceed 300m, or a voltage drop of 2V must not be exceeded.
2. Before powering on, please ensure that all wires are connected correctly and securely; otherwise, the panel may be damaged.
3. DO NOT install with power applied device.

● TD1-4SH 4 zone single color panel



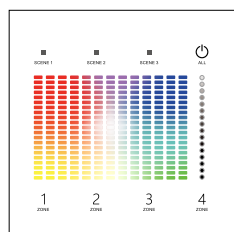
- ALL — Turn on/off all zone light.
- SCENE 1 SCENE 2 SCENE 3 — Short press recall the scene, long press 5s save current brightness into scene 1/2/3.
- Brightness slide.
- 1 2 3 4 — Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light. Short press multiple zone key fastly, will select multiple zone synchronously. 4 zone control seperately or synchronously.

● TD2-4SH 4 zone dual color panel



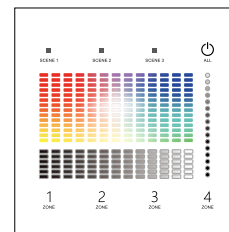
- ALL — Turn on/off all zone light.
- SCENE 1 SCENE 2 SCENE 3 — Short press recall the scene, long press 5s save current brightness into scene 1/2/3.
- Color temperature slide.
- Brightness slide.
- 1 2 3 4 — Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light. Short press multiple zone key fastly, will select multiple zone synchronously. 4 zone control seperately or synchronously.

● TD3-4SH 4 zone RGB panel



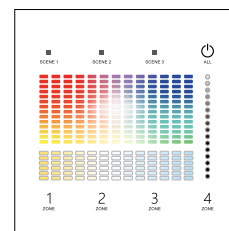
- ALL — Turn on/off all zone light.
- SCENE 1 SCENE 2 SCENE 3 — Short press recall the scene, long press 5s save current brightness into scene 1/2/3.
- Color slide.
- Brightness slide.
- 1 2 3 4 — Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light. Short press multiple zone key fastly, will select multiple zone synchronously. 4 zone control seperately or synchronously.

● TD4-4SH 4 zone RGBW panel



- ALL — Turn on/off all zone light.
- SCENE 1 SCENE 2 SCENE 3 — Short press recall the scene, long press 5s save current brightness into scene 1/2/3.
- Color slide.
- W channel brightness slide.
- Brightness slide.
- 1 2 3 4 — Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light. Short press multiple zone key fastly, will select multiple zone synchronously. 4 zone control seperately or synchronously.

● TD5-4SH 4 zone RGB+CCT panel



- ALL — Turn on/off all zone light.
- SCENE 1 SCENE 2 SCENE 3 — Short press recall the scene, long press 5s save current color into scene 1/2/3.
- Color slide.
- Color temperature slide.
- Brightness slide.
- 1 2 3 4 — Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light. Short press multiple zone key fastly, will select multiple zone synchronously. 4 zone control seperately or synchronously.

Scene locking:

- Scene keys can be set to locked state, cancel long press for 5 seconds to save the scene function (default scene is not locked).
- Short press the panel on/off key, turn on the light first, then turn off the light, immediately long press the panel on/off key for 5 seconds, then immediately long press any one scene key for 5 seconds to set all scene keys to locked state.
- Short press the panel on/off key, turn on the light first, then turn off the light, immediately long press the panel on/off key for 5 seconds, then immediately long press any one scene key for 10 seconds to restore all scene keys to unlocked state.

Touch Panel DALI Master Match RF Remote

Touch panel DALI master can also match with RF 2.4G four zone remote (Optional).
End user can choose the suitable match/delete ways. Two options are offered for selection:

Use On/Off key

Match:
Turn on light, turn off,
immediately press the On/Off key of the panel for 5s,
then press any zone key of the RF remote within 5s.
The LED indicator fast flash 3 times means match is successful.

Delete:
Turn on light, turn off,
immediately press the On/Off key of the panel
for 10s to delete all match,
The LED indicator fast flash 6 times means all matched remotes
were deleted.

Use Power Restart

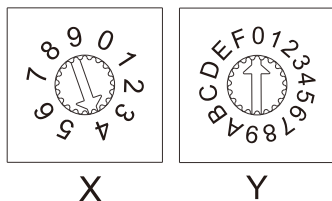
Match:
Switch off the power of the panel, then switch on power,
repeat again.
Immediately short press zone key 3 times on the remote.
The LED indicator fast flash 3 times means match is successful.

Delete:
Switch off the power of the panel, then switch on power,
repeat again.
Immediately short press zone key 5 times on the remote.
The LED indicator fast flash 6 times means all matched remotes
were deleted.

DALI Address Setting

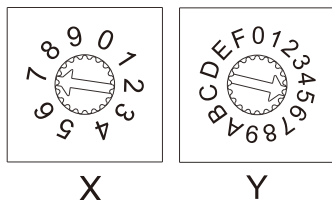
The host DALI address is set via two coding switches on the back of the panel, supporting unicast, group and broadcast modes.
Address value = $X * 10 + Y$. For example: $X = 5$, $Y = 4$, Address value = $5 * 10 + 4 = 54$.

Unicast mode



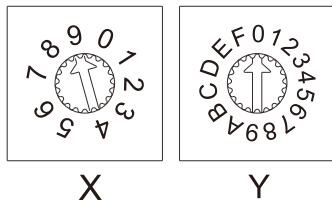
X is 0-6, Y is 0-9.
Address value 0-63 correspond to DALI unicast address 00-63.
For example:
Address value = 40, the unicast values of zone 1,2,3,4 are 40, 41, 42, 43.
Address value = 62, the unicast values of zone 1,2,3,4 are 62, 63, 0, 1.

Group mode



X is 7, Y is 0-F.
Address value 70-7F correspond to DALI group address 0-15.
For example:
Address value = 75, the group address value of zone 1,2,3,4 are 5, 6, 7, 8.
Address value = 7E, the group address value of zone 1,2,3,4 are 14, 15, 0, 1.

Broadcast mode



X is 9, Y is 0-F.
Address value 90 - 9F correspond to broadcast address.

Slave DALI Address Assignment

• Enable or disable slave DALI address settings

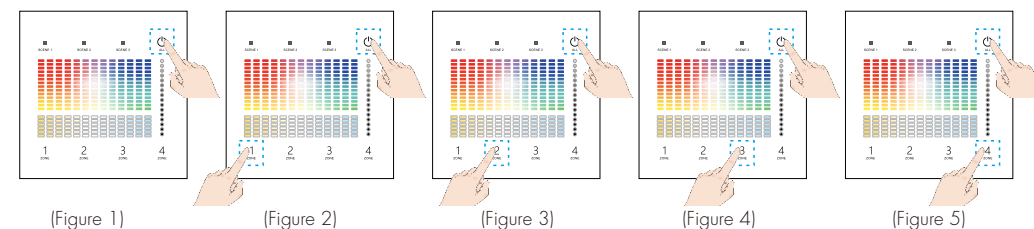
The factory-default slave DALI address setting function has been enabled.

Click the $\odot_{AL}$ key to turn off the light, then long press 2_{ZONE} and 4_{ZONE} key for 5s to turn off the slave DALI address setting function, the LED indicator will flash 3 times.

Click the $\odot_{AL}$ key to turn off the light, then long press 2_{ZONE} and 4_{ZONE} key for 10s to turn on the slave DALI address setting function, the LED indicator will flash 6 times.

• The slave's DALI address or group address assignment

When the host DALI address is set to unicast or multicast mode,
you can set the slave's DALI address by setting all DALI subdevices on the bus to the same DALI address by doing the following.
Note that DALI addresses cannot be assigned in broadcast mode.



Step 1: Verify that the encoding switches are set correctly, for example:

Under unicast mode, set the 4 zone's DALI address 01-04 ($X=0$, $Y=1$)

Under multicast mode, set the 4 zone's group address 5-8 ($X=7$, $Y=5$).

Step 2: Click the $\odot_{AL}$ key to turn off the light (shown in Figure 1).

Step 3: Connect only the DALI subdevices ready to be set to zone 1 on the DALI bus and disconnect the other subdevices.

Simultaneously press and hold the $\odot_{AL}$ and 1_{ZONE} key for 5s (shown in Figure 2), the indicator lights flash rapidly.

When the indicator lights flash slowly 3 times indicates that the DALI address or group address of zone 1 has been successfully assigned.

Step 4: Connect only the DALI subdevices ready to be set to zone 2 on the DALI bus and disconnect the other subdevices.

Simultaneously press and hold the $\odot_{AL}$ and 2_{ZONE} key for 5s (shown in Figure 3), the indicator lights flash rapidly.

When the indicator lights flash slowly 3 times indicates that the DALI address or group address of zone 2 has been successfully assigned.

Step 5: Connect only the DALI subdevices ready to be set to zone 3 on the DALI bus and disconnect the other subdevices.

Simultaneously press and hold the $\odot_{AL}$ and 3_{ZONE} key for 5s (shown in Figure 4), the indicator lights flash rapidly.

When the indicator lights flash slowly 3 times indicates that the DALI address or group address of zone 3 has been successfully assigned.

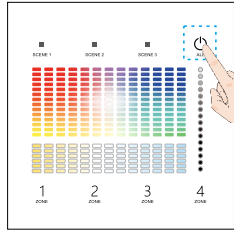
Step 6: Connect only the DALI subdevices ready to be set to zone 4 on the DALI bus and disconnect the other subdevices.

Simultaneously press and hold the $\odot_{AL}$ and 4_{ZONE} key for 5s (shown in Figure 5), the indicator lights flash rapidly.

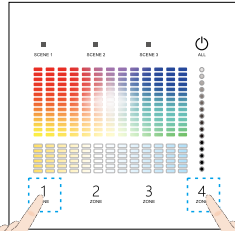
When the indicator lights flash slowly 3 times indicates that the DALI address or group address of zone 4 has been successfully assigned.

- Clear the slave's DALI address and group address

When the host DALI address is set to unicast, group, or broadcast mode, both slave DALI address and group address clear operations can be performed.



(Figure 6)



(Figure 7)

Step 1: Click the  key to turn off the light (shown in Figure 6).

Step 2: Simultaneously press and hold the  and  key for 5s (shown in Figure 7), the indicator lights flash rapidly.

When the indicator lights flash slowly 3 times indicates that the DALI address and group address of all DALI sub-devices on the bus have been cleared.