Manuals+ — User Manuals Simplified.

merrytek T11-1
Daylight Sensor
Module

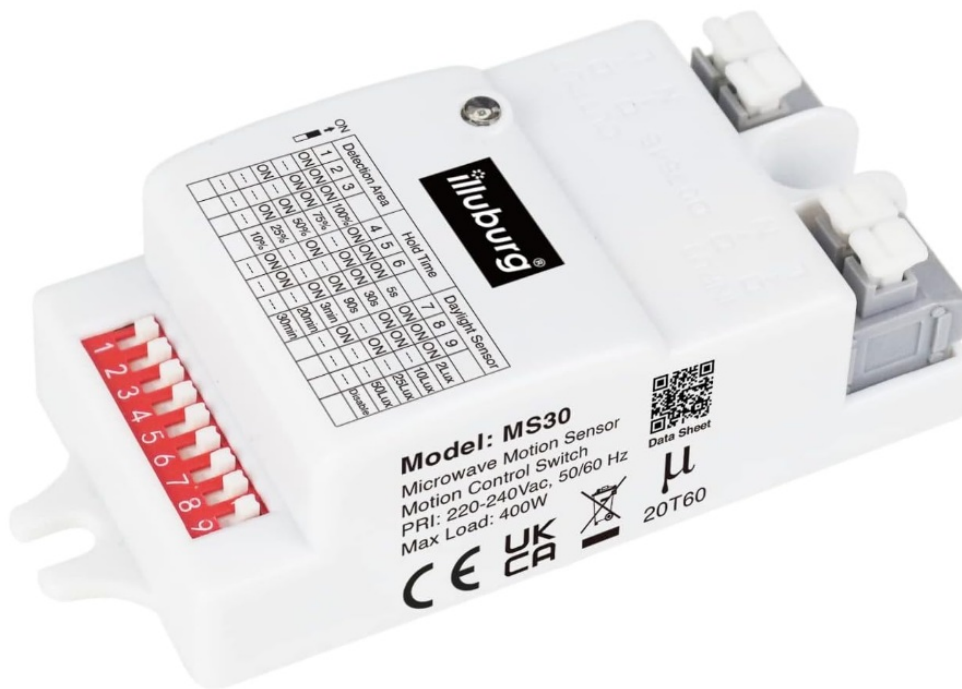# merrytek T11-1 Daylight Sensor Module Owner's Manual

Contents

merrytek T11-1 Daylight Sensor Module

Wall Mounted Touch Panel

4 Zone / 1-5 color / Glass touch panel / Color slide / AC input / DMX 512 and RF 2.4G signal output

| T11-1 | T12-1 | T13-1 | T14-1 | T15-1 |

- Touch panel 4 zone 1-5 color DMX512 master, can also be used as 4 zone 1-5 color RF remote.
- DMX signal output, comply to standard DMX512 protocol, compatible with DMX decoder from any supplier.
- When used as RF remote, each zone can remote control multiple RF 2.4G LED controllers.
- Ultra sensitive high strength glass touch panel with touch color slide in the middle.
- Smooth and accurate color adjustment by touching the color slide.
- Touch keys with LED indicator.
- White & Black glass panel available.

Technical Parameters

Model No.	T11-1	T12-1	T13-1	T14-1	T15-1
Light type	Single color	Dual color	RGB	RGBW	RGB+CCT
Output DMX channel number	4	8	12	16	20

Input and Output

- Input voltage   100-240VAC
- Input current   Max 0.1A
- Output signal   DMX512, RF 2.4GHz

Package

- Size   L112 x W112 x H50mm
- Gross weight   0.230kg

Dimming data

- Input signal   Touch key + RF 2.4GHz
- RF Control distance   10m(Barrier-free space)
- Dimming level   256 levels
- Dimming range   0 -100%

Warranty
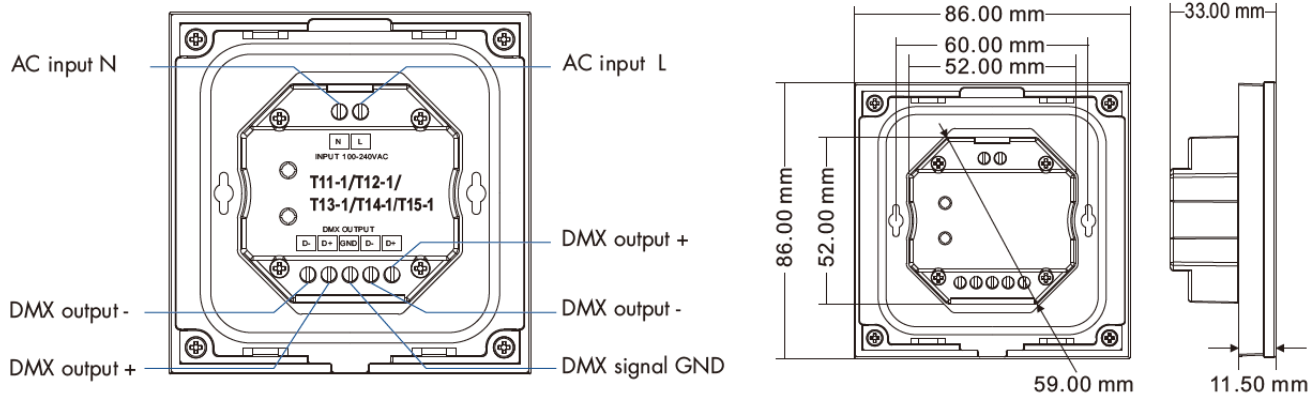Warranty 5 years

Safety and EMC

- EMC standard (EMC)   ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
- Safety standard   EN 61348-1:2015+A1:2021 EN 61348-2-13:2014+A1:2017
- Radio Equipment(RED)   ETSI EN 300 328 V2.2.2
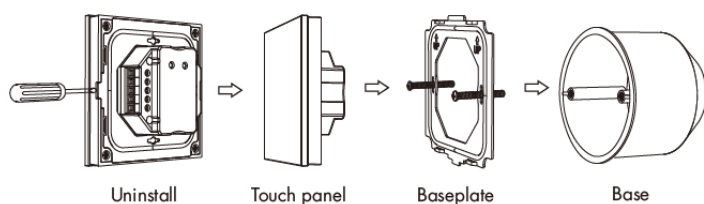- Certification   CE, EMC, RED

Environment

- **Operation temperature** Ta: -30 OC ~ +55OC
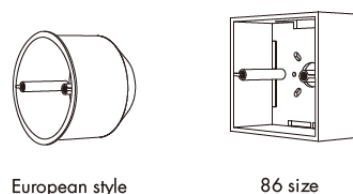- **Case temperature** (Max.) Tc: +65OC
- **IP rating**   IP20
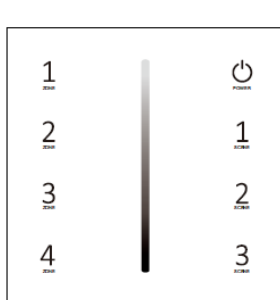
Mechanical Structures and Installations

AC input N —

AC input L —

N L
INPUT 100-240VAC

T11-1/T12-1/
T13-1/T14-1/T15-1

DMX OUTPUT
D- D+ GND D- D+

DMX output + —

DMX output - —

DMX output - —

DMX output + —

DMX signal GND —

86.00 mm
60.00 mm
52.00 mm

33.00 mm

86.00 mm
52.00 mm

59.00 mm

11.50 mm

Installation diagram:

Uninstall   Touch panel   Baseplate   Base

Typical base as below:

European style   86 size

Key function

● T11-1   Single color panel

⏻ Power —— Turn on/off all zone light.

▮ —— Brightness slide.

1 Scene   2 Scene   3 Scene —— Short press recall scene. Long press 2s to save the current state into 1/2/3.

1 Zone   2 Zone   3 Zone   4 Zone

Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light. 4 zone control seperately or synchronously, each zone could control multiple receivers.

1 ZONE   ⏻ POWER
2 ZONE   1 SCENE
3 ZONE   2 SCENE
4 ZONE   3 SCENE

● T12-1   Dual color panel

⏻ Power —— Turn on/off all zone light.

▮ —— Color temperature.

☼+ —— Brightness +,10 levels.

☼- —— Brightness -,10 levels.

S Scene —— Short press recall scene. Long press 2s to save the current state into the scene.

1 Zone   2 Zone   3 Zone   4 Zone

Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light. 4 zone control seperately or synchronously, each zone could control multiple receivers.

1 ZONE   ⏻ POWER
2 ZONE   +☼ BRIGHT
3 ZONE   -☼ BRIGHT
4 ZONE   S SCENE

● T13-1　RGB panel
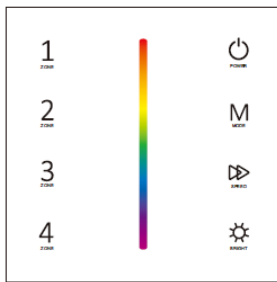
⏻ Power —— Turn on/off all zone light.

▮ —— Color slide.

M Mode —— Short press play 10 built-in dynamic mode, long press 2s run mode-cycle.

▷▷ Speed —— Adjust dynamic mode speed or RGB color saturation, 10 levels.

☼ Bright —— Adjust brightness, 10 levels.

1 Zone　**2** Zone　**3** Zone　**4** Zone

Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light.
4 zone control seperately or synchronously, each zone could control multiple receivers.
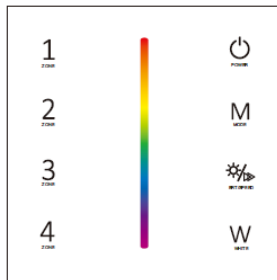

● T14-1　RGBW panel

⏻ Power —— Turn on/off all zone light.

▮ —— Color slide.

M Mode —— Short press play 10 built-in dynamic mode, long press 2s run mode-cycle.

☼/▷ Brt/Speed —— Adjust dynamic mode speed or static color brightness, 10 levels.

W White —— Short press get white color, long press adjust white brightness.

1 Zone　**2** Zone　**3** Zone　**4** Zone

Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light.
4 zone control seperately or synchronously, each zone could control multiple receivers.
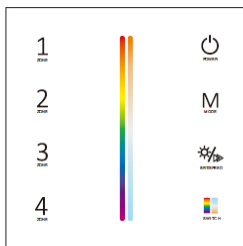
● T15-1　RGB+CCT panel

⏻ Power —— Turn on/off all zone light.

▮ —— RGB color / Color temperature slide.

▤ SWITCH —— Switch between RGB color / Color temperature slide.

M Mode —— Short press play 10 built-in dynamic mode, long press 2s run mode-cycle.

☼/▷ Brt/Speed —— Adjust dynamic mode speed or static color brightness, 10 levels.

1 Zone　**2** Zone　**3** Zone　**4** Zone

Short press turn on zone light and select zone simultaneously, long press 2s turn off zone light.
4 zone control seperately or synchronously, each zone could control multiple receivers.
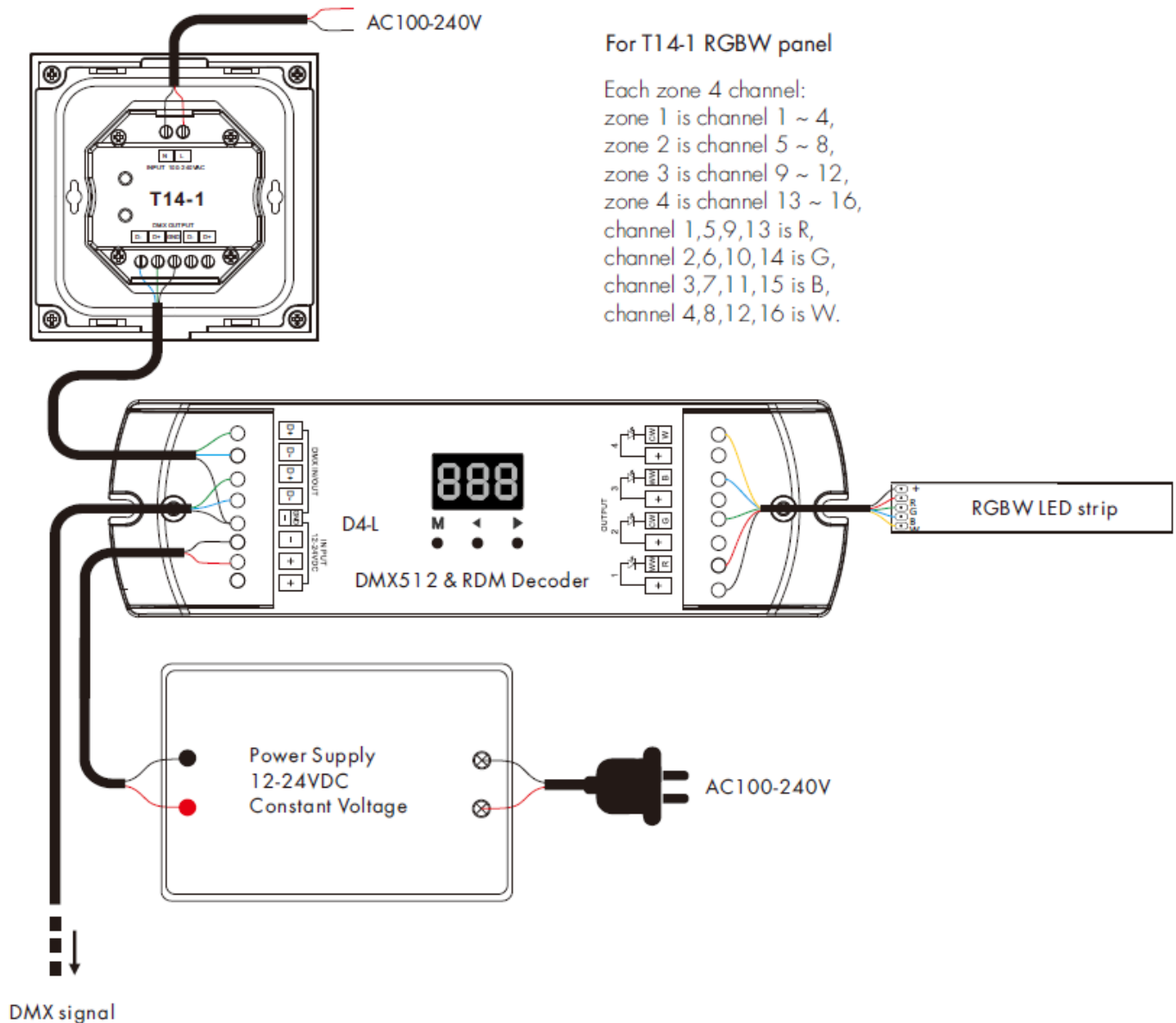
Turn on key tone: Long press power key for 5s when all zone light is off, will turn on or turn off key tone.

Touch Panel work as DMX512 Master
After connect with DMX decoders, please set the DMX decoders address as below:

Model No.	T11-1	T12-1		T13-1			T14-1				T15-1				
		WW	CW	R	G	B	R	G	B	W	R	G	B	WW	CW
Zone 1 DMX decoder's address	1	1	2	1	2	3	1	2	3	4	1	2	3	4	5
Zone 2 DMX decoder's address	2	3	4	4	5	6	5	6	7	8	6	7	8	9	10
Zone 3 DMX decoder's address	3	5	6	7	8	9	9	10	11	12	11	12	13	14	15
Zone 4 DMX decoder's address	4	7	8	10	11	12	13	14	15	16	16	17	18	19	20

Wiring Diagram for touch panel work as DMX512 master

AC100-240V

For T14-1 RGBW panel

Each zone 4 channel:
zone 1 is channel 1 ~ 4,
zone 2 is channel 5 ~ 8,
zone 3 is channel 9 ~ 12,
zone 4 is channel 13 ~ 16,
channel 1,5,9,13 is R,
channel 2,6,10,14 is G,
channel 3,7,11,15 is B,
channel 4,8,12,16 is W.

RGBW LED strip

DMX512 & RDM Decoder

D4-L

Power Supply
12-24VDC
Constant Voltage

AC100-240V

DMX signal

Touch Panel work as DMX512 master match RF remote

Touch panel 4 zone DMX512 master can also match with 4 zone RF 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 any 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 any zone key 5 times on the remote.
The LED indicator fast flash 6 times means all matched remotes were deleted.

Touch Panel work as RF remote
Touch panel 4 zone remote can match with RF controller for the corresponding light type.
End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the controller's Match key

Match:
Short press match key, immediately press zone key of the touch panel. The LED indicator fast flash a few times means match is successful.

Delete:
Press and hold match key for 5s to delete all match,
The LED indicator fast flash a few times means all matched remotes were deleted.

Use Power Restart

Match:
Switch off the power of the receiver, then switch on power, repeat again. Immediately short press zone key 3 times on the touch panel.
The light blinks 3 times means match is successful.

Delete:
Switch off the power of the receiver, then switch on power, repeat again. Immediately short press zone key 5 times on the touch panel.
The light blinks 5 times means all matched remotes were deleted.

Wiring Diagram for touch panel work as RF remote
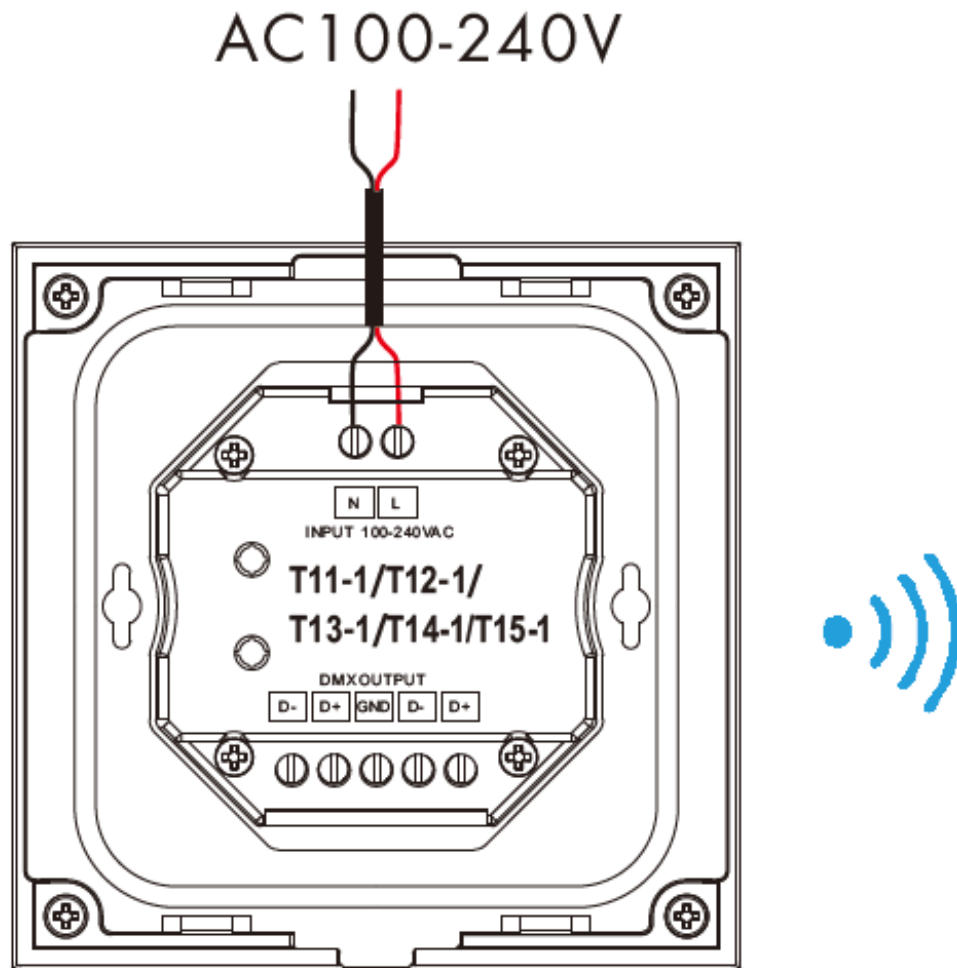
RGB/RGBW dynamic mode list (only for T13-1 / T14-1)

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out
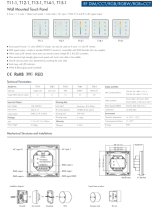
RGB+CCT dynamic mode list (only for T15-1)

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Color temperature smooth	10	White fade in and out

Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Wrong color	1. DMX decoder first address error. 2. Wrong connection of output wires.	1. Check the DMX first address. 2. Reconnect output wires.

Documents / Resources

merrytek T11-1 Daylight Sensor Module [pdf] Owner's Manual
T11-1, T11-1 Daylight Sensor Module, Daylight Sensor Module, Sensor Module, Module

References

- **User Manual**