
	Customer/Project:	<b>Sotec</b>	Reference:	
			Rev:	B
<b>User Guide of TH30 and TRF2</b>			Release Date:	04/01/2017
			Pages	1 / 6

## **User Guide of TH30 and TRF2**

- 1. Production Introduction**
- 2. User's Manual**
- 3. Pairing Procedure**
- 4. Un-Pairing**
- 5. Product Application**
- 6. Others**
- 7. Warning Statement**

 <b>T:MOTION</b> MOTION WITH INTELLIGENCE	Customer/Project:	<b>Sotec</b>	Reference:	
			Rev:	B
<b>User Guide of TH30 and TRF2</b>			Release Date:	04/01/2017
			Pages	2 / 6

## 1. Product Introduction

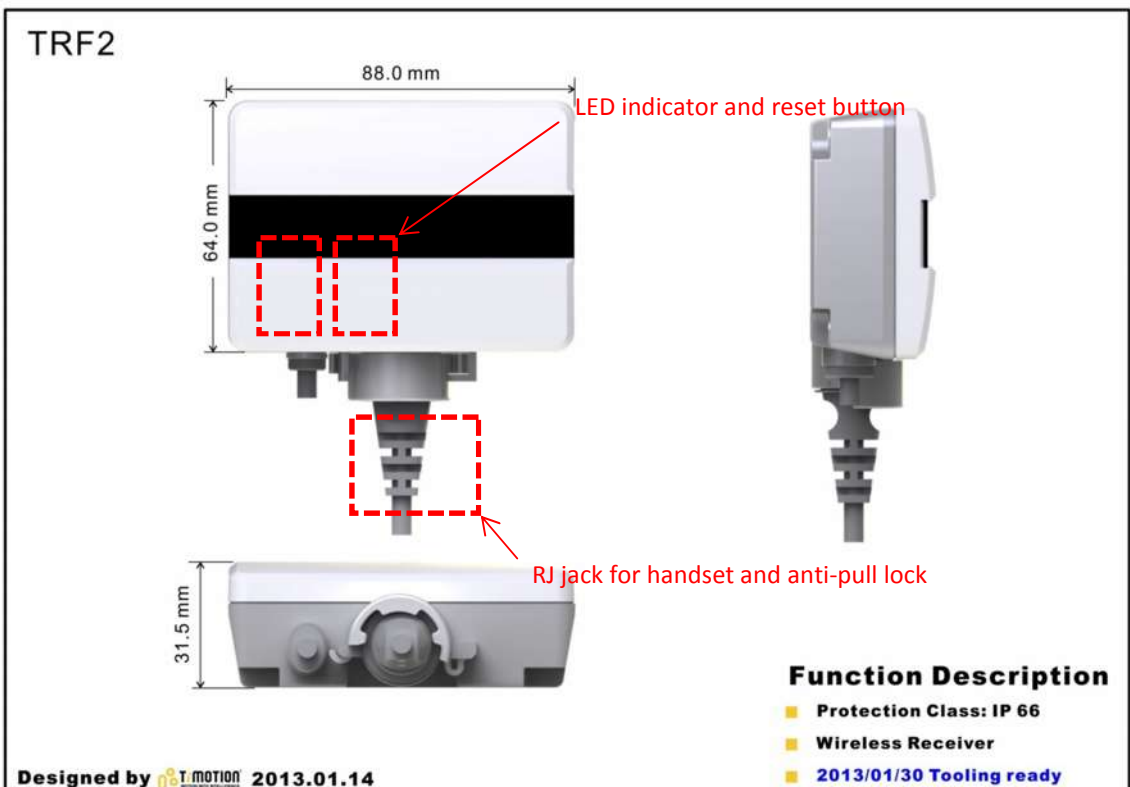
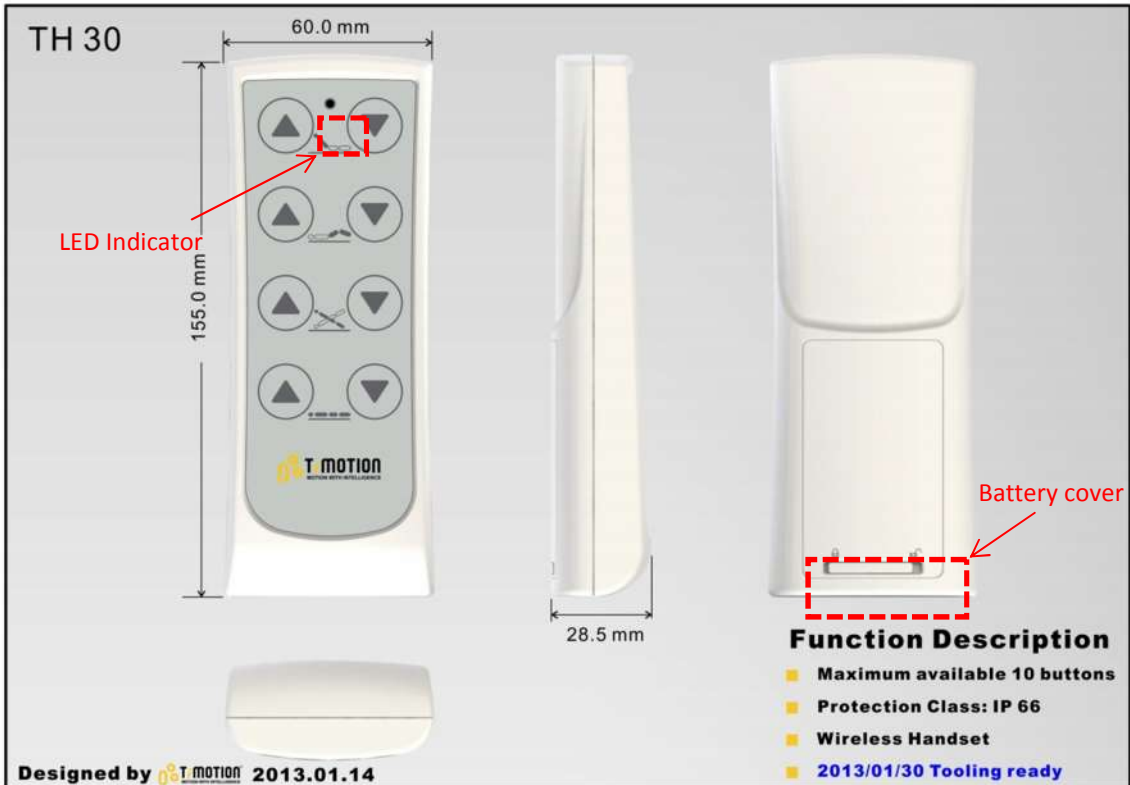
TH30 + TRF2 is the latest TIMOTION remote control system with 2.4GHz wireless standard.


The main characteristics are:

Operating distance is 3~7M , waterproof level is IP66 , and fully support TIMOTION T-BUS system

Powered by 2x AA batteries , Customizable membrane



The basic introduction as below:



	Customer/Project:	Sotec	Reference:	
			Rev:	B
<h1>User Guide of TH30 and TRF2</h1>			Release Date:	04/01/2017
			Pages	3 / 6

## 2. User Manual

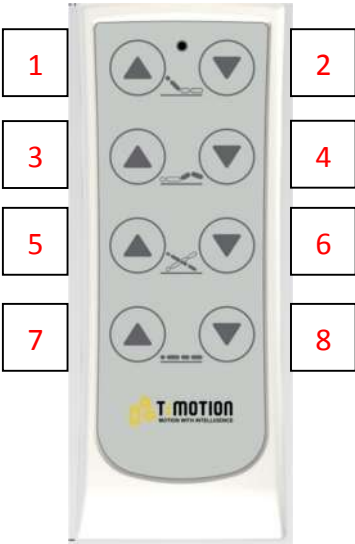
### A. Battery Replacement


	<p>I. Follow the direction of red arrow slide the latch to unlock battery cover.</p>						
	<p>II. Put battery cover and lock it after replaced 2×AA batteries.</p> <p>Standby time for alkaline batteries:</p> <table border="1" data-bbox="718 940 1257 1086"> <thead> <tr> <th>Conditions</th> <th>Standby time</th> </tr> </thead> <tbody> <tr> <td>No operation</td> <td>50000hr</td> </tr> <tr> <td>Operating continuously</td> <td>80hr</td> </tr> </tbody> </table> <p>EX: If operates it 10 times and 1 minute each time per day, TH30 can sustaining uses for 480 days when new alkaline batteries are used.</p>	Conditions	Standby time	No operation	50000hr	Operating continuously	80hr
Conditions	Standby time						
No operation	50000hr						
Operating continuously	80hr						

**Remark:**

- Note 1: Please put battery cover back and make sure the latch slide back to, in order to make sure waterproof function working as IP66

### B. Definition of the buttons (the information below is an example, all membrane are customizable to fit customer's demand )

	<p>Please go through part 3 “pairing procedure” before use of TH30.</p> <table border="1"> <tr> <td>1, 2</td> <td>For back button 1-up; button 2-down</td> </tr> <tr> <td>3, 4</td> <td>For legs button 3-up; button 4-down</td> </tr> <tr> <td>5, 6</td> <td>For trendelenburg Button 5-up; button 6-down</td> </tr> <tr> <td>7, 8</td> <td>For bed height(Hi-Lo function) button 7-up; button 8-down</td> </tr> </table>	1, 2	For back button 1-up; button 2-down	3, 4	For legs button 3-up; button 4-down	5, 6	For trendelenburg Button 5-up; button 6-down	7, 8	For bed height(Hi-Lo function) button 7-up; button 8-down
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	Customer/Project:	Sotec	Reference:	
			Rev:	B
<h1>User Guide of TH30 and TRF2</h1>			Release Date:	04/01/2017
			Pages	4 / 6

### 3. Pairing Procedure

	<p>A. Please put TH30 and TRF2 together with the distance less than 50cm like this picture.</p>
	<p>B. TRF2: Slide open the protection cover</p>
	<p>C. TH30: Keep pressing button 1 and button 2 for 5 seconds to activate pairing mode. Wait until the LED indicator keeps flashing slowly.</p>
	<p>D. TRF2: Keep pressing reset button till LED indicator flashing 2 times. This indicates the pairing procedure completed. (the LED indicator on TH30 would flashing 2 times at the same time as TRF2s')</p>
	<p>E. TRF2: Please slides protection cover back and make sure it's fixed</p>


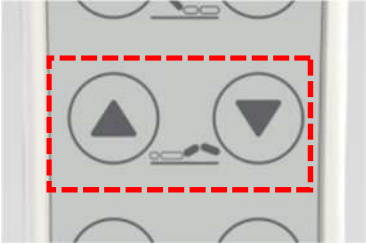
**Remark:**

Note 1: Please complete pairing procedure within 7 seconds, the pairing mode will be turned off automatically after 7 seconds since it was activated

	Customer/Project:	Sotec	Reference:	
			Rev:	B
<h1>User Guide of TH30 and TRF2</h1>			Release Date:	04/01/2017
			Pages	5 / 6

#### 4. Un-pairing procedure

- A. Please put TH30 and TRF2 together with the distance less than 50cm like this picture.
- B. Keep pressing button 3 and button 4 for 7 seconds to activate un-pairing mode, un-pairing procedure completed after LED indicator flashing 3 times

	<p>A. Please put TH30 and TRF2 together with the distance less than 50cm like this picture.</p>
	<p>B. Keep pressing button 3 and button 4 for 7 seconds to activate un-pairing mode, un-pairing procedure completed after LED indicator flashing 3 times</p>

Remark:

Note 1: Un-pairing procedure only done by TH30.

#### 5. Product Application:

TH30 is for hospital, home beds and nursing beds. The operators will use the wireless handset to operate bed frame, and avoid contacting with the handset which the patient used.

#### 6. Others

1. Modulation: GFSK
2. Operating frequency: 2420MHz, 2450MHz, 2480MHz
3. Power supply: TH30 (AA battery) / TRF2 (Timotion RJ plug)
4. Input voltage : TH30 (DC 3V) / TRF2 (DC 24~36V)
5. Environmental Requirements

Operation conditions

Ambient temperature: 10°C ~ 40°C

Relative humidity range: 30% ~ 75%


Atmospheric pressure: 86KPa~ 106Kpa

Storage and shipping conditions

Ambient temperature: -10°C ~ 50°C

Relative humidity range: 10% ~ 93%

Atmospheric pressure: 86KPa~ 106KPa

	Customer/Project:	<b>Sotec</b>	Reference:	
			Rev:	B
<b>User Guide of TH30 and TRF2</b>			Release Date:	04/01/2017
			Pages	6 / 6

## 7. Warning Statement

### FCC Part 15.19 Warning Statement

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

### FCC Part 15.21 Warning Statement

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

### FCC Part 15.105 Warning Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.