TIS TRV

Thermostatic Radiator Valve

Model: TIS-TRV, TIS-TRV-16CNV





PRODUCT INFORMATION

This product is a thermostatic radiator valve designed to warm rooms without raising energy costs. This wireless solution replaces the existing thermostat dial and is battery powered and offers scheduling and accurate room-temperature analysis. It also turns the supply open and closed and allows you to set radiators remotely and separately.











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Read Instructions

We recommend that you read this Instruction Manual before installation.



Mounting Location

Connected directly to the radiator valve or with adaptors accessories.



Safety instructions

Electrical equipment should only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and other hazards.

These instructions are an integral part of the product and must remain with the end customer.



Data Cable

Connect TIS-TRV-16CNV gateway by stranded RS485 data cable with four twisted pairs. Connect devices in a "daisy chain."

Do not cut or terminate live data cables.



Programming

This device can be tested and programmed manually. Advanced programming requires TIS's Device Search software. Advanced software programming knowledge should be obtained in TIS's advanced training courses.



Warranty

We provide a warranty as required by law. Please send the description of the defect with Product S/N to our dealer network.



Simple Installation

TIS-TRV has an M30 x 1.5 universal type head-to-body connection.







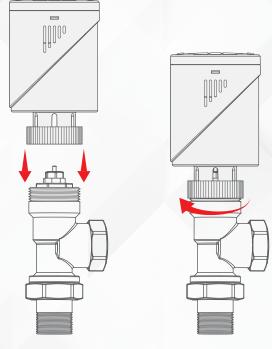


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INSTALLATION STEPS



Replace your Radiator valve by TIS TRV, in case your valve size or type not fit with TIS TRV you can use the adaptor accessories inside the TIS TRV package.



Valve installation (with M30 adaptor as an example)

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Thread-measure dimension of M30× 1.5 (Heimeier, Junkers Landys+Gyr, MNG, Honeywell, Braukmann,)	NO ADAPTER REQUIRED
Danfoss RAV (accompanying pin must be plugged on the valve tapped)	
Danfoss RA	
Danfoss RAVL	



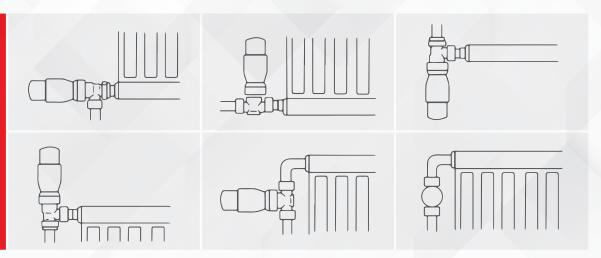


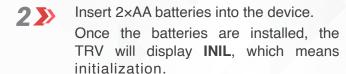
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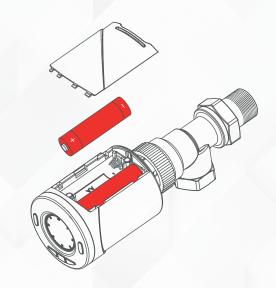


INSTALLATION STEPS

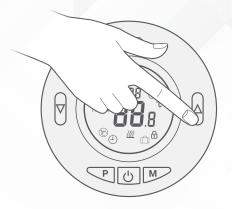
MOUNTING POSITIONS







When the TRV displays AdAP, press the **3** UP button (change 0 to 1), which means the TRV will adapt itself to the stroke of your valve body. To do so, the TRV will open and close twice to store the end points.



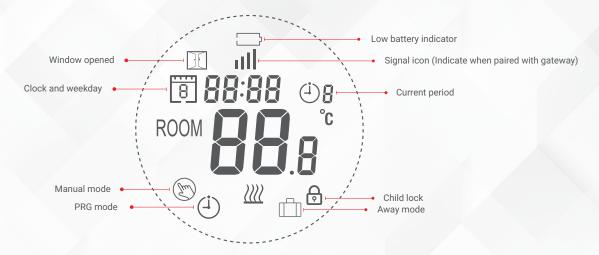




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DISPLAY & BUTTONS



MODE SETTING

Press the **M** button to choose between Manual mode / Away mode / PRG mode.



CLOCK & WEEKDAY SETTING

Press and hold the P button for 5s, and set the clock (Min-Hour-Weekday) by pressing the UP and DOWN buttons. Each press of the P button will go to next item setting.





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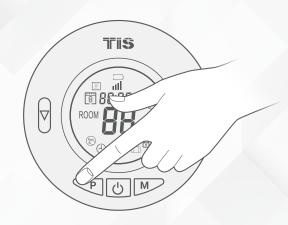


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7-DAY PROGRAMMABLE SETTING

After completing the clock settings, press P to go to PRG schedule settings.



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Set the schedule (Weekday-Period-Start time-Temp.) by pressing the UP and DOWN buttons. Each press of the P button will go to next item setting.



PERIOD		1 2 3		2		3	4	
	Time	Temp	Time	Temp	Time	Temp	Time	Temp
12345 (Mon.~Fri.)	7:00	22°C	8:30	19°C	17:00	22°C	22:00	19°C
6 (Sat.)	8:00	22°C	8:30	22°C	17:00	22°C	22:00	19°C
7 (Sun.)	8:00	22°C	8:30	22°C	17:00	22°C	22:00	19°C



TIS TRV

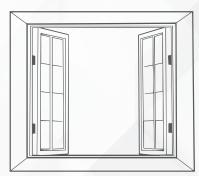
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OPEN WINDOW DETECT FUNCTION (OWD FUNCTION)

When the Open Window mode is enabled in the parameter settings, the system will automatically stop heating when it detects a sudden drop of room temperature (2°C in 15 minutes as default). This is normally caused when a window or door is opened without turning off the heating device.





The device will return to the previous mode of operation after 30 minutes. At that time, the OP indicator will disappear. Pressing any button will exit the OWD function during the heating off period.

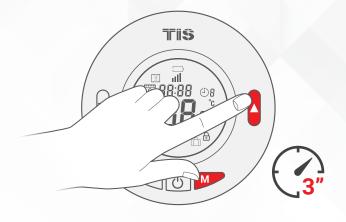






PARAMETER SETTINGS

To configure your TRV, you need to turn off the thermostat first and then press and hold the **M** and **UP** buttons for 3s, until it displays 01. Each press of the **M** button will go to the next item setting. Adjust the range by using the **UP** and **DOWN** buttons.





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All of the specification are subject to change without notice.

SA, AUSTRALIA

Wanchai, Hong Kong



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PARAMETER SETTINGS

MENU	DESCRIPTION	RANGE	DEFAULT VALUE
01	Temp. calibration for internal sensor	-8 °C ~8 °C	0°C
02	Set Point Max.	5 °C ~35°C	35 °C
03	Set Point Min.	5 °C ~35°C	5 °C
05	Frost Protection Temp.	5 °C ~15°C	5 °C
10	Display	0: Room temp. 1: SET temp.	0
12	Open window detect function	1: ON 0: OFF	0
13	OWD Detect Time	2~30mins	15mins
14	OWD Drop temp. select (within detect time)	2.3.4°C	2 'C
15	OWD Delay time select (Return to previous working status)	10~60min	30mins
17	Factory reset	0: No 1: Yes, and then press On/off button for 5s, waitt until thermostat restarts	0
18	Software version		
19	Software version		
31	Battery voltage	Unit: 10mv	
32	PID P-band select	2 °C ~10°C	7°C
33	PID I-time select	30~90min	30min





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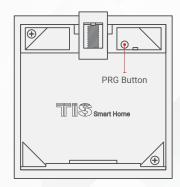
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CONFIGURATION STEPS (Pairing TRV with Gateway)

You can pair up to 16 TIS TRVs to the TIS-TRV-16CNV Gateway. To do so, follow these instructions:

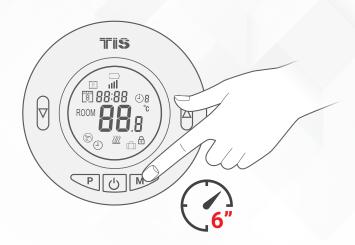
Press the Gateway's (TIS-TRV-16CNV) PRG button 3 times. The PRG green LED will turn steady ON.



Turn the TRV module OFF by pressing the power button.



Long press the M button on the TRV for 6 seconds. The graph on the TRV's LCD will change.





TIS TRV

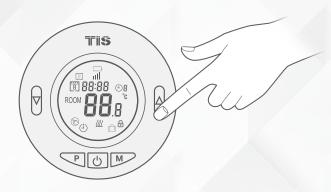
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CONFIGURATION STEPS (Pairing TRV with Gateway)

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Press the UP button on the TRV.



Wait for the Gateway's (TIS-TRV-16CNV) PRG LED to change to normal. The pairing is done.



- Do the same steps for other TRVs. You can pair a maximum of 16 TRVs.
- You can see each TRV number and edit its name in the Device Search software by double clicking on the TRV.
- You can also delete all info and remove TRV from network.
- From Luna or another TIS panel's Slave AC, you can add the Subnet Device ID and slave number for the TRV.
- From the TIS app, you can control the TRV by selecting Panel Control > AC and adding the address of the TRV Gateway and AC number as TRV numbers.





TIS TRV

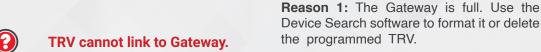
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TROUBLESHOOTING

?	PRG button blinks purple color rapidly.	ar ne 6 ac
?	No display turned on in the TRV LCD	R ca
	TRV cannot link to Gateway.	Re De th

Reason: The plug address conflicts with another device in the TIS network. You need to press and hold the PRG button for 6 seconds so that the module can get a new address.

Reason: The battery is low. Replace it with a new one.



Reason 2: TRV is too far from the Gateway.

"OP" signal displayed and heating not turning on.

Reason: Door opening detection is enabled, and there were sudden changes in temperature. Press any button to turn the heat on again.



Reason 1: The TIS-BUS connection is not linked to the TRV Gateway.

Reason 2: The programming address is wrong.

