This Thermostat is digital thermostat,which is designed for electric floor heating system or water heating system, Using 4.3 inch color touch LCD display,the working status can be easily understood.With built-in four languages,you can select the languages you want to display.

With five modes,the system can work according to your desired pre-set temperature conveniently. And the 5+1+1 days programmable function, which is easy-to-program on/off settings per day.

Simple regulation which sends On/Off commands to the heating system according to a pre-selected temperature variation.The thermostat control algorithm includes an anticipation function which reduces the discrepancy between the thermostat reading and the temperature at the centre of the room.

Choose from three(3) sensor setting: Ambient(built-in sensor)-to control the air temperature;Floor-to control the temperature using the floor probe;Ambient and Floor-to control the ambient air,and show floor temperature by using the floor probe.

Product Features

◇ 4.3inch Color Touch Screen Operation
◇ Electric Heating System (Max.16A) or Water Heating system (Max.3A)
◇ Adjustable Comfort Mode, Economy Mode, Party Mode, Holiday Mode and program Mode Control
◇ 5+1+1 Days programmable
◇ External and Internal Sensor Select
◇ Four languages select:English,French,German,Dutch
◇ Clock and Date Display
◇ Temp. Clibration
◇ Temp.Protection
◇ 86*86mm mounting

Technical Data

◇ Voltage: AC 110 ~ 230V,50/60Hz
◇ Range: Minium 40m in door 70m outdoor line of sight
◇ Frequency: 868.42MHz(EU),908.4MHz(US), 921.4MHz(AU),869MHz(RU)
◇ Load Current: 16A(Max)
◇ Temp.Setting Range:5~35℃
◇ Ambient: 0~50 ℃
◇ Sensor: NTC10K,3950ohms at 25℃
◇ Accuracy:±0.5℃
◇ Protection Class: IP30

Inclusion/Exclusion

1) Make sure the thermostat in the Main interface of OFF mode,
2) Have Z-wave controller enter inclusion or exclusion mode,
3) Press Up Button on thermostat 3 times in 1.5 seconds will enter inclusion/exclusion mode. The icon will twinkle in the certain interval.
4) After the twinkle stop, if the icon display means the product in the Z-wave network, else not.

Memory Function

Parameter NO:4
-Length: 1 Byte
-Valid values =0 or 1(default value is 1)
When the value is 0,device memory function not open; when the value is 1, open device memory function .The memory function means the thermostat will recover the operating mode after a power failure.

Z-wave Supported Command Class

COMMAND_CLASS_ASSOCIATION
COMMAND_CLASS_ASSOCIATION_GRP_INFO
CPMMAND_CLASS_BASIC
COMMAND_CLASS_SWITCH_ALL
COMMAND_CLASS_THERMOSTAT_MODE
COMMAND_CLASS_THERMOSTAT_SETPOINT
COMMAND_CLASS_SENSOR_MULTILEVEL
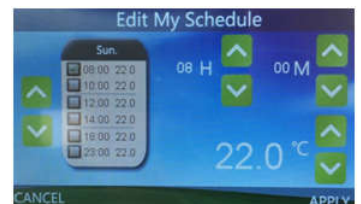COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2

Screen and Display

1	ON/OFF Button	Use to turn on/off Thermostat
2	Mode Button	Use to Choose working Mode
3	Menu Button	Use to Menu settings
4	Down Button	Decrease Temp.or other parameter setting
5	Up Button	Increase Temp.or other parameter setting
6	External Temp.	Show Floor Temp
7	Room Temp	Show Actual Room Temp.
8	Set Temp	Range:5-35℃
9	Room Temp.Icon	Room Temp.Icon
10	Mode Icon	Show Current Working Mode
11	Clock Icon	Show Current Time & Enter Parameter Setting
12	Weekday Icon	Show Current Weekday
13	Heating Icon	Will Show When In Heating
14	Mode Icon	Show Current Working Mode
15	Date & Time Button	Use to Set Weekday and Time
16	PRG. Schedule Review Button	Use to Check 5+1+1 Days Programmable Schedule
17	Mode Temp.Pre-set Button	Use to Pre-set Mode's Working Temp
18	Language Select Button	Use to Select English,French, German & Dutch language
19	Protection Temp. Set Button	Use to set Over Protection Temp & Low Protection Temp
20	Comfort Mode Button	Once Select,Thermostat Will Work According to pre-set Temp. Of Comfort Mode
21	Economy Mode Button	Once Select,Thermostat Will Work According to Pre-set Temp. Economy Mode
22	Party Mode Button	Once Select,Thermostat Will Work According to Pre-set Temp. Of party Mode
23	Holiday Mode Button	Once Select,Thermostat Will Work According to Pre-set Temp. Of Holiday Mode
24	PRG.Mode Button	Once Select,Thermostat Will Work According to Pre-set Temp. Of 5+1+1 PRG Mode

Schedule Setting

Press Menus Button,press
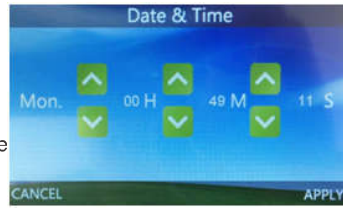Then you can review weekly schedule.you can press the three columns to change the 5+1+1 events.

For example.if you want to Edit Sat. Schedule,you can press sat.Column,then you will enter the Edit page as picture shows,Every Setting can be finish by pressing or button

1. In Sun. Column, there are six periods. You can press ⏶ or ⏷ button to choose the period you are going to change. Whichever period is selected, ✅ will display.
2. After period is selected, you can set hour, minute and temperature by pressing ⏶ and ⏷ button.
3. After new schedule is set, pls. press "APPLY" to save the new schedule.

Edit Date and Time

Press Menu button, choose 🕐 Button to edit date and time by ⏶ or ⏷ button. After setting pls. Press "APPLY" to save the change

Mode Pre-set Temp. Settings

Press Menu button, choose 🌤 Button to pre-set mode working Temp. by ⏶ and ⏷ button. After setting, Pls. press "APPLY" to save the changes.

Protection Settings

Press Menu then select 🔲 Button to enter Protection Settings Page. You can set High Protection temp. & Low protection temp. by ⏶ and ⏷ button. After setting, pls. press "APPLY" to save the changes.
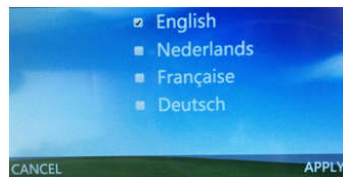
High Protection: It uses external sensor to probe floor temp. When floor temp. over set protection temp. the system will be shut off automatically.

Low protection: It functions only when thermostat under OFF mode, It uses internal sensor to probe room temp. When room temp. below set protection temp, then the system will be shut on automatically.

Languages Select

Press Menu button, then Select 🌐 icon to enter languages page, after selecting the language You want, press "APPLY" to save it.
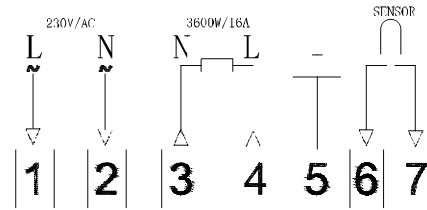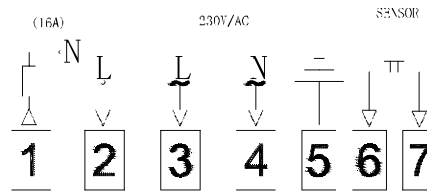
Parameter Settings

Turning thermostat to OFF mode, press `MENU` for 3 seconds, then will enter parameter setting, you can set the desired value by pressing "<<" or ">>", and go to other pages by pressing "Pre" or "Next".

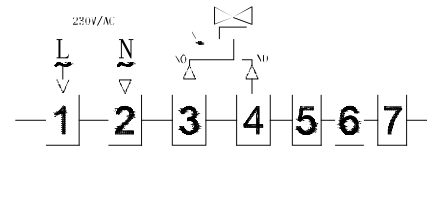| Menu	Description	Range
01	Temp.Offset	-10℃~10℃
02	Dead Zone	0℃~3℃
03	Set Point Max	5℃~35℃
04	Set Point Min	5℃~35℃
05	NTC Select(Internal,External)	I only.E only,I&E,I or E
06	Low Protection Max.	5℃~15℃
07	Low Protection Min.	5℃~15℃
08	High Protection Max.	5℃~90℃
09	High Protection Min.	5℃~90℃
10	Backlight off time after operation	3s~180S
11	Min.Backlight Brightness of standby status	1%~100%
12	Relay Delay Time	0S~250s
13	Relay Output	Normal(NO);Inverted(NC)
14	Restore	

Wiring Diagrams

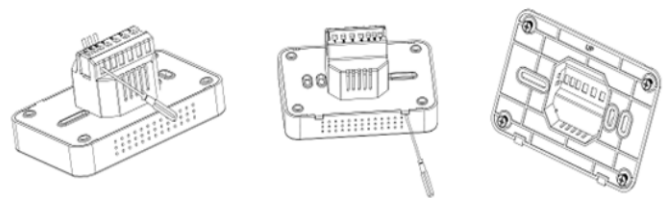Electric Heating system

Voltage-Free System

Water Heating System

Note:
One wiring diagram for one kind thermostat only, please wire according to thermostat back print. For example if you get a electing heating thermostat can't wire as water heating wiring diagram. Reverse the same!

Installation

Using a screw driver to open the upper and lower body part, then connect the wiring to terminals tightly, then fix the lower body part into wall with attached screws.

Dimension(mm)

TKB Home