THERMOSTAT SERIES

HLTC5110 Series

HLTC5110 Series WiFi knob button thermostat can be controlled by a mobile phone through tuya app. It is applied to temperature control of industrial, commercial and domestic room, and start of control heating appliances, especially floor heating systems.

Features

- Intelligent temperature control settings
- Knob design with colorful atmosphere
- Power-off memory function
- Real-time date save function
- Support for third-party voice control (Amazon /Google)
- Optional external sensor
- WIFI for Andriod&Apple IOS
- Weather forecast
- Optional base plate design (plastic/glass)

Technical specifications

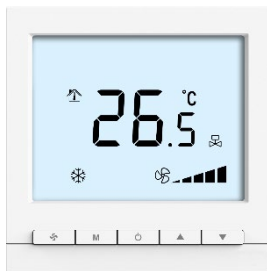- Power Supply : AC95~240V, 50/60Hz
- Current Load: ≤3A (Hydronic), ≤16A (Electrical)
- Power Consumption: <1.5 W
- Environmental:

  Operating Temperature Range: 0~45℃ ;

  Storage Temperature Range: -5~45℃

  Operating Humidity Range: 5~95% RH (no condensation)
- Room Temperature Accuracy : ±1℃
- Display Temperature Resolution : 0.5℃
- Terminations:

  Hydronic Heating Model: one 2.5mm^2

  Electrical Heating Model: one 4 mm^2
- Protection Class: IP20
- Shell Material:PC+ABS Anti-flaming
- Dim. H x W x D(mm): 86x86x57
- Set Temperature Range: 5~35℃, 5~99℃(Floor)

Color List

- HLTC5110 Series: Black Plastic
- HLTC5111 Series: White Plastic
- HLTC5112 Series: Black Glass
- HLTC5113 Series: White Glass

Model List

No.	model	Communication	Type of valve		On/Off Timer	Voice Control	External sensor		DO (dry contact)	Note
		Wi-Fi	2-wires	3-wires			Standard	Optional	For gas boiler	
1	HLTC5110HE0P1	√			√	√		√		Electrical
2	HLTC5110HW0P1	√	√		√	√		√		Hydronic
3	HLTC5110HW0P5	√	√		√	√		√	√	

THERMOSTAT SERIES

HLTC1010 Series

HLTC1010 series is a big family which is suitable for most kinds of heating and air-conditioning systems' terminal control or equipment control.For heating application, it is suitable for hydronic floor heating, electrical heating and FCU + hydronic floor heating. Beyond normal FCU control, It offers enhanced functions (by special models) like anti- condensation, modulating valve and floating valve control, BLDC Motor Fan Control. Local schedule and remote control via free mobile app makes it easy to improve comfort and save energy. With RS-485 interface it can be integrated by BA System via Modbus-RTU protocol.

Features

● Intelligent temperature control settings
● White Backlight display with Press Button
● Anti-condensation function
● Anti-freezing function
● Programmable Schedule
● On/Off Timer
● Power-off memory function
● RS485 / Modbus - RTU
● Optional external sensor (NTC10k B=3950)
● With child lock function
● BLDC Motor Fan Control (Optional)
● Up Power Restoration
● Configurable Hysterisis
● Overheat protection

Color List

● HLTC1010 Series: White

Technical specifications

● Power Supply：AC85~250V, 50/60Hz
● Max Hydronic Current Load: ≤2A (resistive), ≤1A (inductive)
● Max Electrical Current Load: ≤16A (resistive), ≤6A (inductive)
● Self Power Consumption: <2 W
● Environmental:
    Operating Temperature Range: 0~45℃；
    Storage Temperature Range: -10~60℃
    Operating Humidity Range: 5~95% RH (no condensation)
● Room Temperature Accuracy：±1℃
● Display Temperature Resolution：0.5℃
● Terminations:
    Hydronic Heating Model: one 2.5mm^2
    Electrical Heating Model: one 4 mm^2
● Dim. H x W x D(mm): 86x86x15.5
● Protection Class: IP30
● Set Temperature Range: 5~35℃

Model List

No.	Model	Communication		Type of FCU		Type of valve		Type of fan	Fan status after set temp		On/Off Time	Program Schedule	Remote sensor	DO (dry contact)	Note
		RS-485	Wi-Fi	2-pipe	4-pipe	2wires	3wires	AC 3 speed	still running	Closed		Daily			
1	HLTC1010F21N3			√		√	√	√	√						FCU
2	HLTC1010F21N3-M			√		√	√	√		√					
3	HLTC1010F41N2				√	√	√	√	√						
4	HLTC1010F21P3			√		√	√	√	√		√	√	√		
5	HLTC1010F21P3-M			√		√	√	√		√	√	√	√		
6	HLTC1010F41P3				√	√	√	√	√		√	√	√		
7	HLTC1010F21N3-485	√		√		√	√	√	√				√		
8	HLTC1010F21N3-M-485	√		√		√	√	√		√			√		
9	HLTC1010F41N3-485	√			√	√	√	√	√				√		
10	HLTC0101HW1P1		√			√					√	√	√		Hydronic
11	HLTC0101HE1P4		√								√	√	√		Electrical

THERMOSTAT SERIES

HLTC1020 Series

HLTC1020 series FCU Thermostat: Using acrylic mirror cover display and equipped with touch buttons, it can control ordinary AC three-speed fans and on/off electric valves to achieve accurate room temperature control, some models have RS-485 interface, which can be integrated by the building control
system through Modbus-RTU protocol.

Features

- Intelligent temperature control settings
- White Backlight display with Press Button
- Anti-condensation function
- Anti-freezing function
- Programmable Schedule
- On/Off Timer
- Power-off memory function
- RS485 / Modbus - RTU
- Optional external sensor
- With child lock function
- BLDC Motor Fan Control (Optional)
- Up Power Restoration
- Configurable Hysterisis
- Overheat protection

Technical specifications

- Power Supply : AC90~240V, 50/60Hz
- Max Hydronic Current Load: ≤2A (resistive), ≤1A (inductive)
- Max Electrical Current Load: ≤16A (resistive), ≤6A (inductive)
- Self Power Consumption: <2 W
- Environmental:
    Operating Temperature Range: 0~45℃ ;
    Storage Temperature Range: -10~60℃
    Operating Humidity Range: 5~95% RH (no condensation)
- Room Temperature Accuracy : ±1℃
- Display Temperature Resolution : 0.5℃
- Terminations:
    Hydronic Heating Model: one $2.5mm^2$
    Electrical Heating Model: one $4\ mm^2$
- Dim. H x W x D(mm): 86x86x11.5
- Protection Class: IP30

Color List

- HLTC1020 Series: White
- HLTC1021 Series: Black

Model List

No.	Model	Communication		Type of FCU		Type of valve		Type of fan	Fan status after set temp		On/Off Time	S1/S2 Input (Keycard)	Remote sensor	DO (dry contact)	Note
		RS-485	Wi-Fi	2-pipe	4-pipe	2wires	3wires	AC 3 speed	still running	Closed					
1	HLTC1020F21P3			√		√	√	√	√		√				FCU
2	HLTC1020F21P3-M			√		√	√	√		√	√				
3	HLTC1020F41P3				√	√	√	√	√		√				
4	HLTC1020F21N3	√		√		√	√	√	√			√	√		
5	HLTC1020F21N3-M	√		√		√	√	√		√		√	√		
6	HLTC1020F41N3	√			√	√	√	√	√			√	√		
7	HLTC1020HW1P1					√					√	√	√		Hydronic
8	HLTC1020HE1P4										√	√	√		Electrical

THERMOSTAT SERIES

HLTC1030 Series

HLTC1030 series thermostat has sleek color touch screen and concise user interface which makes interaction smooth and efficient. It provides precise temperature control and enjoy features like nighttime dimmer, configurable display and scenario mode control. Local schedule and remote control via free mobile app makes it easy to improve comfort and save energy. HLTC103X series have RS-485 interface, which can be integrated by the building control system through Modbus-RTU protocol.

Features

● Intelligent temperature control settings
● Color Touch Screen
● Configurable Display
● Anti-freezing function
● Programmable Schedule
● On/Off Timer
● Power-off memory function
● RS485 / Modbus - RTU
● Optional external sensor
● With child lock function
● Scenario Mode Control
● Up Power Restoration
● Configurable Hysterisis
● WIFI for Andriod&Apple IOS
● OTA

Technical specifications

● Power Supply : AC85~250V, 50/60Hz
● Max Hydronic Current Load: ≤2A (resistive), ≤1A (inductive)
● Self Power Consumption: <3 W
● Environmental:
   Operating Temperature Range: 0~50℃ ;
   Storage Temperature Range: -10~60℃
   Operating Humidity Range: 5~95% RH (no condensation)
● Room Temperature Accuracy : ±1℃
● Display Temperature Resolution : 0.1℃
● Terminations:
   Hydronic Heating Model: one 2.5mm^2
   Electrical Heating Model: one 4 mm^2
● Dim. H x W x D(mm): 86x86x12
● Protection Class: IP30
● Mounting Hole Dim.: 60mm

Color List

● HLTC1030 Series: Black

Model List

No.	Model	Communication		Type of FCU		Type of valve		Type of fan	Fan status after set temp		On/Off Time	S1/S2 Input (Keycard)	Remote sensor	DO (dry contact)	Note
		RS-485	Wi-Fi	2-pipe	4-pipe	2wires	3wires	AC 3 speed	still running	Closed					
1	HLTC1030HWPP1	√	√			√					√	√	√	√	Hydronic
2	HLTC1030F4PP2	√	√		√	√		√	√		√	√	√	√	FCU
3	HLTC1030F2PP3-M	√	√	√		√	√	√		√	√	√	√	√	
4	HLTC1030F2PP3	√	√	√		√	√	√	√		√	√	√	√	
5	HLTC1030B2PP3	√	√	√		√	√	√	√		√	√	√	√	FCU & Hydronic
6	HLTC1030B2PP3-M	√	√	√		√	√	√		√	√	√	√	√	

THERMOSTAT SERIES

HLTC2010 Series

HLTC2010 Series controller is a newly developed product with a large LCD screen for market demand. Easy to operate and fully functional.

Controllable: electric ball valve, electric valve, electric heating valve, solenoid valve, heater, electric heating film, carbon crystal, etc.

Features

- Intelligent temperature control settings
- Large screen display and touch button
- Power-off memory function
- Peal-time date save function
- 5+2 or 6+1 or 7 days six periods program schedule
- Anti-freezing function
- 3 sensor modes can be setting
- Optional external sensor
- Selectable 80mm*80mm European hidden box
- With child lock function
- WIFI for Andriod&Apple IOS

Technical specifications

- Power Supply : AC200~240V, 50/60Hz
- Current Load: ≤3A (Hydronic), ≤16A (Electrical)
- Power Consumption: <0.3 W
- Environmental:

  Operating Temperature Range: 0~45℃ ;

  Storage Temperature Range: -5~55℃

  Operating Humidity Range: 5~95% RH (no condensation)
- Room Temperature Accuracy : ±1℃
- Display Temperature Resolution : 0.5℃
- Terminations:

  Hydronic Heating Model: one 2.5mm^2

  Electrical Heating Model: one 4 mm^2
- Dim. H x W x D(mm): 86x86x13.3
- Protection Class: IP30
- Shell Material:PC+ABS Anti-flaming
- Mounting Hole Dim.: 60mm

Color List

- HLTC2010 Series: White

Model List

No.	Model	Communication	Type of valve		On/Off Timer	Program Schedule	External sensor		DO (dry contact)	Note
		RF	2-wires	3-wires		5+2/6+1/7	Standard	Optional	For gas boiler	
1	HLTC2010HWTP5	√	√		√	√		√	√	Hydronic

THERMOSTAT SERIES

HLTC2020 Series

HLTC2020 Series. The digital heating liquid crystal temperature controller adopts the mostadvanced microcomputer control chip in the world, and detects thetemperature through a high-precision sensor inside the thermostat. And inreal time, compared with the temperature set by the user, the load (electricheating device or valve) is automatically turned on and off to achieve thepurpose ofmaintaining the indoor constant temperature.

Features

- Intelligent temperature control settings
- Large screen display and touch button
- Power-off memory function
- Real-time date save function
- 5+2 or 6+1 or 7 days six periods program schedule
- Anti-freezing function
- 3 sensor modes can be setting
- Optional external sensor
- 80mm*80mm European hidden box
- With child lock function
- WIFI for Andriod&Apple IOS

Technical specifications

- Power Supply : AC200~240V, 50/60Hz
- Current Load: ≤3A (Hydronic), ≤16A (Electrical)
- Power Consumption: <0.3 W
- Environmental:
  Operating Temperature Range: 0~45℃ ;
  Storage Temperature Range: -5~55℃
  Operating Humidity Range: 5~95% RH (no condensation)
- Room Temperature Accuracy : ±1℃
- Display Temperature Resolution : 0.5℃
- Terminations:
  Hydronic Heating Model: one 2.5mm^2
  Electrical Heating Model: one 4 mm^2
- Dim. H x W x D(mm): 86x86x13.3
- Protection Class: IP30
- Shell Material:PC+ABS Anti-flaming
- Mounting Hole Dim.: 60mm
- Set Temperature Range: 5~60℃, 5~99℃(Floor)

Color List

- HLTC2020 Series: White
- HLTC2021 Series: Black

Model List

No.	Model	Communication	Type of valve		On/Off Timer	Program Schedule	External sensor		DO (dry contact)	Note
		Wi-Fi	2-wires	3-wires		5+2/6+1/7	Standard	Optional	For gas boiler	
1	HLTC2020HE1P4				√	√	√	√		Electrical
2	HLTC2020HW1P1		√		√	√		√		Hydronic
3	HLTC2020HW1P5		√		√	√		√	√	Hydronic
4	HLTC2020HE0P4	√			√	√	√	√		Electrical
5	HLTC2020HW0P1	√	√		√	√		√		Hydronic
6	HLTC2020HW0P5	√	√		√	√		√	√	

THERMOSTAT SERIES

HLTC2030 Series

HLTC2030 Series touch screen thermostats are luxurious programmable thermostat withlarge screen display.It is applied to temperature control of industrial,commercial and domestic room,and start of control heating applicanceespecially used in the floor-heating systems.

Features

- Intelligent temperature control settings
- Large screen display and touch button
- Power-off memory function
- Real-time date save function
- 5+2 or 6+1 or 7 days six periods program schedule
- Anti-freezing function
- 3 sensor modes can be setting
- Optional external sensor
- Selectable 80mm*80mm European hidden box
- With child lock function
- WIFI for Andriod&Apple IOS

Technical specifications

- Power Supply : AC200~240V, 50/60Hz
- Current Load: ≤3A (Hydronic), ≤16A (Electrical)
- Power Consumption: <0.3 W
- Environmental:
    Operating Temperature Range: 0~45℃ ;
    Storage Temperature Range: -5~55℃
    Operating Humidity Range: 5~95% RH (no condensation)
- Room Temperature Accuracy : ±1℃
- Display Temperature Resolution : 0.5℃
- Terminations:
    Hydronic Heating Model: one $2.5mm^2$
    Electrical Heating Model: one $4 mm^2$
- Dim. H x W x D(mm): 86x86x13.3
- Protection Class: IP30
- Shell Material:PC+ABS Anti-flaming
- Mounting Hole Dim.: 60mm
- Set Temperature Range: 5~60℃, 5~99℃(Floor)

Color List

- HLTC2030 Series: White
- HLTC2031 Series: Black

Model List

No.	Model	Communication	Type of valve		On/Off Timer	Program Schedule	External sensor		DO (dry contact)	Note
		Wi-Fi	2-wires	3-wires		5+2/6+1/7	Standard	Optional	For gas boiler	
1	HLTC2030HE0P4	√			√	√	√	√		Electrical
2	HLTC2030HW0P1	√	√		√	√		√		Hydronic

THERMOSTAT SERIES

HLTC2040 Series

HLTC2040 Series is suitable for temperature control of fan coil units, electric valves, electric air valves, electric air vents, and heating equipment. Using a large screen LCD display and an NTC (Negative Temperature Coefficient) temperature sensor inside the thermostat, the indoor temperature is detected and compared in real time with the temperature set by the user. The air intake of the heating and cooling system is automatically adjusted and the pipeline electric valve is opened or closed to maintain a constant temperature inside the room.

Features

● Intelligent temperature control settings
● Large screen display and touch button
● Power-off memory function
● Real-time date save function
● 5+2 or 6+1 or 7 days six periods program schedule
● Anti-freezing function
● 3 sensor modes can be setting
● Optional external sensor
● Selectable 80mm*80mm European hidden box
● With child lock function
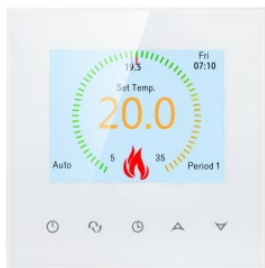● WIFI for Andriod&Apple IOS

Technical specifications

● Power Supply : AC85~265V, 50/60Hz
● Current Load: ≤3A (Hydronic), ≤16A (Electrical)
● Power Consumption: <0.3 W
● Environmental:

 Operating Temperature Range: 0~45℃ ;

 Storage Temperature Range: -5~55℃

 Operating Humidity Range: 5~95% RH (no condensation)

● Room Temperature Accuracy : ±1℃
● Display Temperature Resolution : 0.5℃
● Terminations:

 Hydronic Heating Model: one 2.5mm^2

 Electrical Heating Model: one 4 mm^2

● Dim. H x W x D(mm): 86x86x40
● Protection Class: IP30
● Shell Material:PC+ABS Anti-flaming
● Mounting Hole Dim.: 60mm
● Set Temperature Range: 5~60℃, 5~99℃(Floor)

Color List

● HLTC2040 Series:　　　Black+ golden

Model List

No.	Model	communication	Type of FCU	Type of valve		On/Off Timer	Program Schedule	External sensor		DO (dry contact)	Note
		Wi-Fi	2-pipe	2-wires	3-wires		5+2/6+1/7	Standard	Optional	For gas boiler	
1	HLTC2040HE1P4					√	√	√	√		Electrical
2	HLTC2040HW1P1			√		√	√		√		Hydronic
3	HLTC2040HW1P5			√		√	√		√	√	Hydronic
4	HLTC2040HE0P4	√				√	√	√	√		Electrical
5	HLTC2040HW0P1	√		√		√	√		√		Hydronic
6	HLTC2040HW0P5	√		√		√	√		√	√	Hydronic
7	HLTC2040B20P1	√	√	√		√	√		√		FCU & Hydronic

THERMOSTAT SERIES

HLTC2050 Series

HLTC2050 Series is a color TFT-LCD thermostat is WIFI touch screen thermostat with phone control.It is applied to temperature control of industrial,commercial and domestic room.and start of control heating appliances.especially floor heating systems.It can be controlled by phone.Phone systems are IOS and Andriod system optional.

Features

- Intelligent temperature control settings
- Color screen display and touch button
- Power-off memory function
- Real-time date save function
- 5+2 or 6+1 or 7 days six periods program schedule
- Anti-freezing function
- 3 sensor modes can be setting
- Optional external sensor
- Selectable 80mm*80mm European hidden box
- With child lock function
- WIFI for Andriod&Apple IOS

Technical specifications

- Power Supply : AC200~240V, 50/60Hz
- Current Load: ≤3A (Hydronic), ≤16A (Electrical)
- Power Consumption: <0.3 W
- Environmental:

  Operating Temperature Range: 0~45℃ ;

  Storage Temperature Range: -5~55℃

  Operating Humidity Range: 5~95% RH (no condensation)
- Room Temperature Accuracy : ±1℃
- Display Temperature Resolution : 0.5℃
- Terminations:

  Hydronic Heating Model: one $2.5mm^2$

  Electrical Heating Model: one $4 mm^2$
- Dim. H x W x D(mm): 86x86x13.3
- Protection Class: IP30
- Shell Material:PC+ABS Anti-flaming
- Mounting Hole Dim.: 60mm
- Set Temperature Range: 5~60℃, 5~99℃(Floor)

Color List

- HLTC2050 Series: White
- HLTC2051 Series: Black

Model List

No.	model	Communication	Type of valve		On/Off Timer	Program Schedule	External sensor		DO (dry contact)	Note
		Wi-Fi	2-wires	3-wires		5+2/6+1/7	Standard	Optional	For gas boiler	
1	HLTC2050HW1P1		√		√	√		√		Hydronic
2	HLTC2050HW1P5		√		√	√		√	√	
3	HLTC2050HE1P4				√	√	√	√		Electrical
4	HLTC2050HW0P1	√	√		√	√		√		Hydronic
5	HLTC2050HW0P5	√	√		√	√		√	√	
6	HLTC2050HE0P4	√			√	√	√	√		Electrical

THERMOSTAT SERIES

HLTC2110 Series

HLTC2110 Series WiFi touch screen thermostat can be controlled by phone.

It is applied to temperature control of industrial, commercial and domestic room, and start of control heating appliances, especially floor heating systems. It can be controlled by phone. Phone systems are IOS andAndriod system optional.

Features

- Intelligent temperature control settings
- Large screen display and touch button
- Power-off memory function
- Real-time date save function
- 5+2 or 6+1 or 7 days six periods program schedule
- Anti-freezing function
- 3 sensor modes can be setting
- Optional external sensor
- Selectable 80mm*80mm European hidden box
- With child lock function
- WIFI for Andriod&Apple IOS

Technical specifications

- Power Supply : AC200~240V, 50/60Hz
- Current Load: ≤3A (Hydronic), ≤16A (Electrical)
- Power Consumption: <0.15 W
- Environmental:

    Operating Temperature Range: 0~45℃ ;

    Storage Temperature Range: -5~55℃

    Operating Humidity Range: 5~95% RH (no condensation)

- Room Temperature Accuracy : ±1℃
- Display Temperature Resolution : 0.5℃
- Terminations:

    Hydronic Heating Model: one 2.5mm^2

    Electrical Heating Model: one 4 mm^2

- Protection Class: IP30
- Shell Material:PC+ABS Anti-flaming
- Mounting Hole Dim.: 60mm
- Set Temperature Range: 5~60℃, 5~99℃(Floor)

Color List

- HLTC2110 Series: Black+ golden
- HLTC2111 Series: White+ golden
- HLTC2112 Series: Black+ Silvery

Model List

No.	model	Communication	Type of valve		On/Off Timer	Program Schedule	External sensor		DO (dry contact)	Note
		Wi-Fi	2-wires	3-wires		5+2/6+1/7	Standard	Optional	For gas boiler	
1	HLTC2110HE0P4	√			√	√	√	√		Electrical
2	HLTC2110HW0P1	√	√		√	√		√		Hydronic
3	HLTC2110HW0P5	√	√		√	√		√	√	

THERMOSTAT SERIES

HLTC2120 Series

HLTC2120 Series is a newly developed product with a large LCD screen for market demand. Easy to operate, fully functional, and designed to be mobile.

Controllable:gas boiler, electric ball valve, electric valve, electric heating valve, solenoid valve, etc.

Features

- Intelligent temperature control settings
- Large screen display and touch button
- Power-off memory function
- Real-time date save function
- 5+2 or 6+1 or 7 days six periods program schedule
- Anti-freezing function
- With child lock function
- Mobile design

Technical data

- Power Supply:

    Thermostat: AA size battery * 2

    Receiver: AC200~240V, 50/60Hz

- Current Load: ≤3A (Hydronic), ≤16A (Electrical)
- Power Consumption: <0.15 W
- Environmental:

    Operating Temperature Range: 0~45℃ ;

    Storage Temperature Range: -5~55℃

    Operating Humidity Range: 5~95% RH (no condensation)

- Room Temperature Accuracy：±1℃
- Display Temperature Resolution：0.5℃
- Terminations:

    Hydronic Heating Model: one 2.5mm^2

    Electrical Heating Model: one 4 mm^2

- Protection Class: IP30
- Shell Material:PC+ABS Anti-flaming
- Set Temperature Range: 5~60℃, 5~99℃(Floor)

Color List

- HLTC2120 Series: White+ golden
- HLTC2121 Series: Black+ Silvery

Model List

No.	model	Communication	Type of valve		On/Off Timer	Program Schedule	External sensor		DO (dry contact)	Note
		RF+ Receiver	2-wires	3-wires		5+2/6+1/7	Standard	Optional	For gas boiler	
1	HLTC2120HW0P1-RF	√	√		√	√		√		Hydronic
2	HLTC2120HW0P5-RF	√	√		√	√		√	√	

THERMOSTAT SERIES

HLTC3010 Series

The HLTC3010 temperature controller can replace most ordinary temperature controllers and is suitable for heating systems controlled by electricity or gas. Unlike conventional single function thermostats, this product separates the functions of a regular thermostat into two parts for execution. Receive part HLCL3010 and control part HLTC3010. Users can read from the control center and control according to the actual needs of the heating system.

Features

● Intelligent temperature control settings
● Large screen display and press button
● Power-off memory function
● Real-time date save function
● Weekly program schedule
● Anti-freezing function
● With child lock function
● Low voltage indication
● Mobile design

Technical data

● Power Supply:

Thermostat: AA size battery * 2

Receiver: AC200~240V, 50/60Hz

● Wireless frequency band: 868MHz (FSK)
● Wireless frequency distance (Open): 100m
● Environmental:

Operating Temperature Range: 0~50℃ ;

Storage Temperature Range: -10~60℃, -20~60℃(transport)

Operating Humidity Range: 5~90% RH (no condensation)

● Display Temperature Resolution：0.1℃
● Dim. H x W x D(mm): 86x86x24
● Set Temperature Range: 5~40℃

Color List

● HLTC3010 Series:　　　White

Model List

No.	model	Communication	Type of valve		On/Off Timer	Program Schedule	External sensor	DO (dry contact)	Note
		RF	2-wires	3-wires		Weekly		For gas boiler	
1	HLTC3010HE0P5-RF	√	√		√	√		√	Hydronic

THERMOSTAT SERIES

HLTC3110 Series

HLTC3110 Series is an efficient and precise environmental control device suitable for various scenarios. It is capable of real-time monitoring and displaying room temperature and humidity, while calculating the dew point temperature to effectively prevent condensation issues. The device is equipped with an external NTC temperature sensor to measure ambient temperature and supports temperature adjustment for cooling and heating modes. In ventilation mode, the temperature settings are automatically locked, ensuring intelligent and convenient operation.

Features

- Intelligent temperature control settings
- Large screen display and touch button
- Anti-condensation function
- Real-time date save function
- BLDC Motor Fan Control
- RS485 / Modbus - RTU
- External sensor
- With child lock function
- Mode switching

Technical data

- Power Supply : AC100~240V, 50/60Hz(Receiver)
- DC output: 0~10V
- Self Power Consumption: <3 W
- Environmental:
    - Operating Temperature Range: 0~50℃ ;
    - Storage Temperature Range: -20~70℃
    - Operating Humidity Range: 5~95% RH (no condensation)
- Dew Point Temperature Measurement Range: 0~50℃
- Display Temperature Resolution : 0.1℃
- Dim. H x W x D(mm): 86x86x12
- Terminations: 2.5mm^2
- Protection Class: IP21
- Set Temperature Range: 20~30℃(Cooling), 16~26℃(Heating)

Color List

- HLTC3110 Series: Black

Model List

No.	model	Communication	Type of valve		Type of fan	On/Off Timer	Program Schedule	External sensor	DO (dry contact)	Note
		RS485	2-wires	3-wires	DC 0~10V			Standard	For gas boiler	
1	HLTC3110 Series	√	√		√			√		Hydronic&FCU

THERMOSTAT SERIES

HLTC3120 Series

HLTC3120 Series is an efficient and precise environmental control device suitable for various scenarios. It is capable of real-time monitoring and displaying room temperature and humidity, while calculating the dew point temperature to effectively prevent condensation issues. The device is equipped with an external NTC temperature sensor to measure ambient temperature and supports temperature adjustment for cooling and heating modes. In ventilation mode, the temperature settings are automatically locked, ensuring intelligent and convenient operation.

Features

● Intelligent temperature control settings
● Color Touch Screen
● Anti-condensation function
● Real-time date save function
● BLDC Motor Fan Control
● RS485 / Modbus - RTU
● External sensor
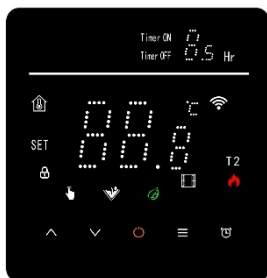● With child lock function
● Mode switching

Technical data

● Power Supply : AC100~240V, 50/60Hz(Receiver)
● DC output: 0~10V
● Self Power Consumption: <3 W
● Environmental:

　　　Operating Temperature Range: 0~50℃ ;

　　　Storage Temperature Range: -20~70℃

　　　Operating Humidity Range: 5~95% RH (no condensation)

● Dew Point Temperature Measurement Range: 0~50℃
● Display Temperature Resolution : 0.1℃
● Dim. H x W x D(mm): 86x86x12
● Terminations: 2.5mm^2
● Protection Class: IP21
● Set Temperature Range: 20~30℃(Cooling), 16~26℃(Heating)

Color List

● HLTC3120 Series:　　　　Black

Model List

No.	model	Communication	Type of valve		Type of fan	On/Off Timer	Program Schedule	External sensor	DO (dry contact)	Note
		RS485	2-wires	3-wires	DC 0~10V			Standard	For gas boiler	
1	HLTC3120 Series	√	√		√			√		Hydronic&FCU

THERMOSTAT SERIES

HLTC4010 Series

HLTC4010 Series thermostat adopts the latest design in appearance and is applicable to industry, commercial and domestic zones. It is applied to carbon crystal heater, wall heater, electro thermal film, heating cable, carbon fiber, electric ball valve and other heating equipment to achieve the heating function.

Features

● Intelligent temperature control settings
● LED display and touch button
● Power-off memory function
● Real-time date save function
● Window opening detection
● Anti-freezing function
● RS485 / Modbus - RTU
● Optional external sensor
● With child lock function
● WIFI for Andriod&Apple IOS

Technical data

● Power Supply : AC100~240V, 50/60Hz
● Current Load: ≤3A (Hydronic), ≤16A (Electrical)
● Self Power Consumption: <2 W
● Environmental:

    Operating Temperature Range: 0~45℃ ;

    Storage Temperature Range: -5~55℃

    Operating Humidity Range: 5~95% RH (no condensation)

● Room Temperature Accuracy : ±1℃
● Display Temperature Resolution : 0.5℃
● Terminations:

    Hydronic Heating Model: one 2.5mm^2

    Electrical Heating Model: one 4 mm^2

● Dim. H x W x D(mm): 86x86x10
● Protection Class: IP30
● Set Temperature Range: 5~35℃

Color List

● HLTC4010 Series: White
● HLTC4011 Series: Black

Model List

No.	model	Communication		Type of valve		On/Off Timer	Program Schedule	External sensor	DO (dry contact)	Note
		Wi-Fi	RS-485	2-wires	3-wires		Weekly	Standard	For gas boiler	
1	HLTC4010HW0P1	√	√	√		√	√		√	Hydronic
2	HLTC4010HW1P1		√	√		√	√		√	
3	HLTC4010HE0P4	√		√		√	√	√		Electrical
4	HLTC4010HE1P4			√		√	√	√		

THERMOSTAT SERIES

HLTC4020 Series

HLTC4020 Series thermostat adopts the latest design in appearance and is applicable to industry, commercial and domestic zones. It is applied to carbon crystal heater, wall heater, electro thermal film, heating cable, carbon fiber, electric ball valve and other heating equipment to achieve the heating function.

Features

● Intelligent temperature control settings
● LCD display and touch button
● Power-off memory function
● Real-time date save function
● Window opening detection
● Anti-freezing function
● Overheat protection
● Dual temperatures/dual display (optional)
● With child lock function
● WIFI for Andriod&Apple IOS

Technical data

● Power Supply : AC110~240V, 50/60Hz
● Current Load: ≤3A (Hydronic), ≤16A (Electrical)
● Power Consumption: <2 W
● Environmental:

  Operating Temperature Range: 0~50℃ ;

  Storage Temperature Range: -5~55℃

  Operating Humidity Range: 5~95% RH (no condensation)
● Room Temperature Accuracy : ±1℃
● Display Temperature Resolution : 0.5℃
● Terminations:

  Hydronic Heating Model: one 2.5mm^2

  Electrical Heating Model: one 4 mm^2
● Dim. H x W x D(mm): 86x86x10
● Protection Class: IP30
● Set Temperature Range: 5~50℃

Color List

● HLTC4020 Series: White
● HLTC4021 Series: Black

Model List

No.	model	Communication	Type of valve		On/Off Timer	Program Schedule	External sensor		DO (dry contact)	Note
		Wi-Fi	2-wires	3-wires		Weekly	Standard	Optional	For gas boiler	
1	HLTC4020HW0P1	√	√		√	√		√	√	Hydronic
2	HLTC4020HW1P1		√		√	√		√	√	
3	HLTC4020HE0P4	√	√		√	√	√			Electrical
4	HLTC4020HE1P4		√		√	√	√			

THERMOSTAT SERIES

HLTC4030 Series

HLTC4030 Series is an smart thermostat combines a stylish appearance with practical functions, equipped with a high-definition LCD display screen, a simple and easy to read interface, a modern design style, and can perfectly integrate into the home environment. It has multiple communication types to choose from, including RS485 and Wi Fi. Mainly used for fan coil control, supporting two pipe and four pipe.

Features

● Intelligent temperature control settings
● LCD display and touch button
● Power off memory function
● Programmable Schedule
● Three-speed fan control
● RS485 / Modbus - RTU
● Dual temperature display
● With child lock function
● WIFI for Andriod&Apple IOS

Technical data

● Power Supply : AC100~240V, 50/60Hz
● Self Power Consumption: <2 W
● Current Load: ≤5A (resistive), ≤3A (inductive)
● Environmental:
       Operating Temperature Range: 0~50℃ ;
       Storage Temperature Range: -5~55℃
       Operating Humidity Range: 5~95% RH (no condensation)
● Display Temperature Resolution : 0.5℃
● Dim. H x W x D(mm): 86x86x12
● Terminations: $2.5mm^2$
● Protection Class: IP21
● Set Temperature Range: 5~35℃(Cooling), 0~99℃(Heating)

Color List

● HLTC4030 Series:　　　White
● HLTC4031 Series:　　　Black

Model List

No.	model	Communication		Type of FCU		Type of valve		Type of fan	Program Schedule	External sensor	DO (dry contact)	Note
		RS485	Wi-Fi	2-pipe	4-pipe	2-wires	3-wires	AC 3 speed		Optional	For gas boiler	
1	HLTC4030F41P1				√	√		√	√	√		FCU
2	HLTC4030F21P1			√		√		√	√	√		
1	HLTC4030F41P1-485	√			√	√		√	√	√		
1	HLTC4030F21P1-485	√		√		√		√	√	√		
	HLTC4030F40P1		√		√	√		√	√	√		
	HLTC4030F20P1		√	√		√		√	√	√		

HLCL2010 Series

HLCL2010 Series controller is a newly developed heating hub with wireless control in response to market demand. Simple operation and complete functions.

Controllable: electric thermostatic valve, two-wire electric valve, solenoid valve, heater, water pump, wall-hung boiler, boiler, etc..

Features

● Partition constant temperature control

● Each working circuit is indicated by an indicator light

● Heating thermoelectric valve Control

● Active linkage control of pump

● Passive interlock of the boiler, Control the delay: adjustable for 30/45/60/120 seconds.

● Active interlock of the external water pump (mixing center) adjustable for 30/45/60/120 seconds.

Technical data

● Power Supply: AC230V/24V, 50Hz

● Current Load (One Way): ≤3A

● Self Power Consumption: ≤10 W

● Environmental:

    Operating Humidity Range: 5~95% RH (no condensation)

● Actuator controlsignals:230V/24V,50HZ

● Controller connection diagram: T5/T6/T8

● Dim. H x W x D(mm): 240*110*42

Model List

No.	Model	Communication		Type of valve		DO (dry contact)	Note
		RF (433MHz)	Wire Carrier	2-wires	3-wires	For gas boiler	
1	HLCL2010-T-6		√	√	√	√	Electrical
2	HLCL2010-8			√	√	√	Hydronic
3	HLCL2010-WF-8	√		√	√	√	
4	HLCL2010-5			√	√	√	Electrical

CONTROLLER SERIES

HLCL3010 Series

HLCL3010 is receive part of control part HLTC3010. The HLTC3010 temperature controller can replace most ordinary temperature controllers and is suitable for heating systems controlled by electricity or gas. Unlike conventional single function thermostats, this product separates the functions of a regular thermostat into two parts for execution. Users can read from the control center and control according to the actual needs of the heating system.

Features

● Partition constant temperature control

● Each working circuit is indicated by an indicator light

● Heating thermoelectric valve Control:

  5*230VAC, 2A per output, Max 3A in total.

● Passive contact (dry contact) linkage

● Boiler control (Volt free signal / Max8(5)A)

● Active linkage control of pump (250VAC Max.5A)

Technical data

● Power Supply: AC100-240V, 50/60Hz

● Current Load (ALL): 250VAC, ≤10A

● Wireless frequency band: 868MHz (FSK)

● Wireless frequency distance (Open): 100m

● Environmental:

  Operating Temperature Range: -20~60℃ ;

  Storage Temperature Range: -20~70℃ ;

  Operating Humidity Range: 5~95% RH (no condensation)

● Actuator controlsignals:230V/24V,50HZ

● Controller connection diagram: T5

● Dim. H x W x D(mm): 160*110*35

Model List

No.	Model	Communication	Type of valve		Program Schedule	DO (dry contact)	Note
		RF (868MHz)	2-wires	3-wires	Weekly	For gas boiler	
1	HLCL3010-RF	√	√		√	√	Hydronic& Electrical