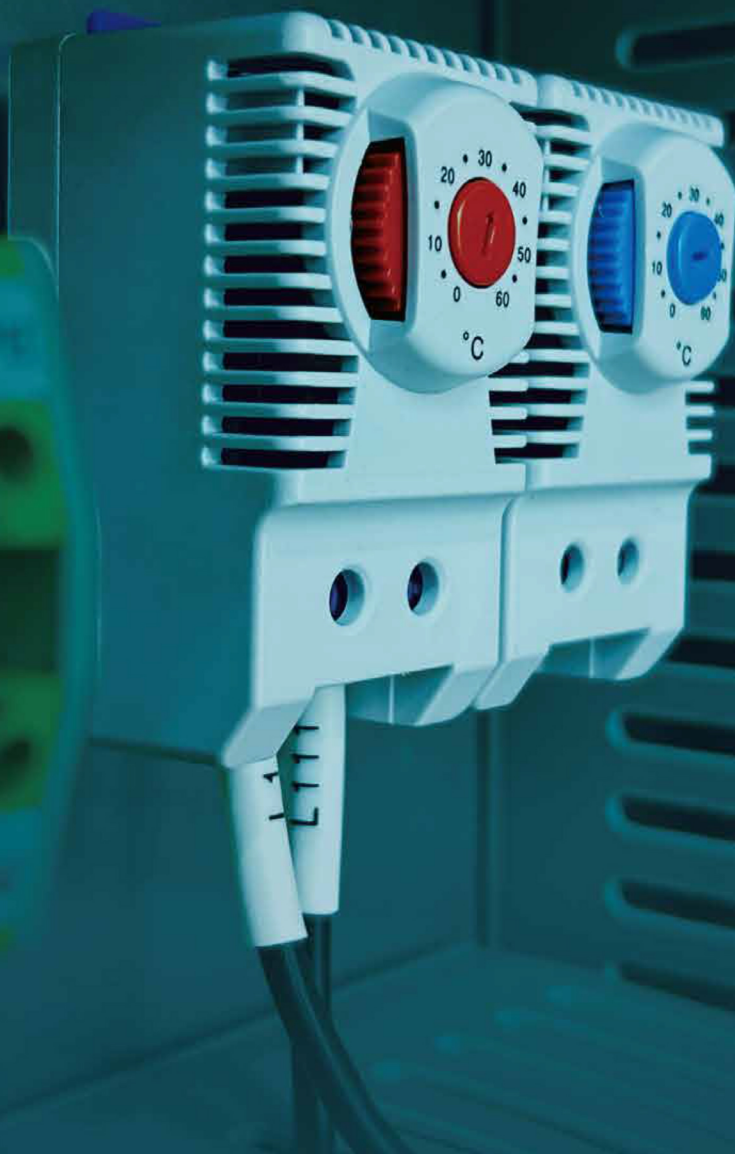# REGULATOR SERIES

Suitable for electrical cabinets that are moisture-proof or where the-temperature cannot fall below the specified minimum value.For example-controlling filter fans, heaters, and heat exchangers. It can also be used asa signal generator to monitor the internal temperature of the controcabinet.

JTO 011:

Thermostat (Normally Closed):Commonly used to connect heaters and disconnect the circuit when the temperature reaches the set value.

JTS 011:

Thermostat (Normally Open):Commonly used to monitor filter fans, heat exchangers, or close circuit output signals when the temperature exceeds the set value.

- Small and compact
- Long electrical life
- Easy to install with 35mm DIN rail
- High switching performance
- Convenient wiring and simple setup
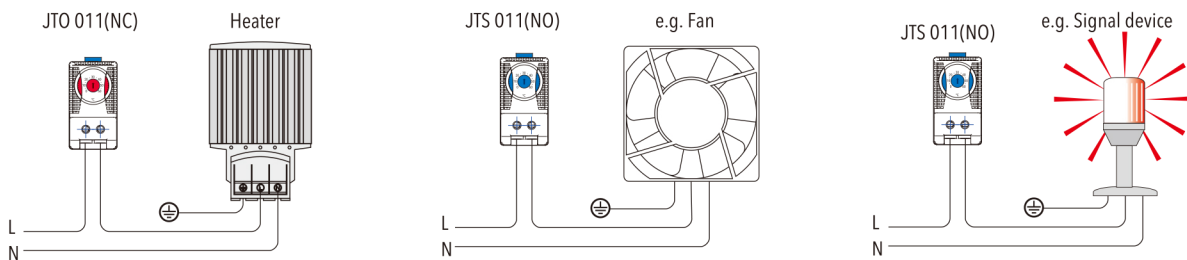- Small size

JTO 011   JTS 011

SPECIFICATION

Temperature range	0~60℃
JTO 011 NC (Normally Closed)	When the temperature reaches the set value, it acts to disconnect the circuit
JTS 011 NO (Normally Open)	When the temperature exceeds the set value, it acts to close the circuit
Switching temperature difference	7k (± 4k tolerance)
Sensing element	Bimetallic temperature sensing material
Contactor type	Jump type contact
Contactor resistance	<10mΩ(with connecting wire)
Usage period	>100000 cycles
Maximum switching load	250vac, 10 (2) a, 120vac, 15 (2) a, 30wdc at 24vdc to 72vdc
Connection method	2 extreme sub-stage, the maximum clamping torque is 0.5nm: steel wire 2.5mm^2, Steel strand wire (wire end with iron bag)1.5mm^2
Shell	Ul94 v-0 plastic, light gray
Install	Installation of 35mm din rail
Size	65x33x44mm
Weight	40g
Fixed position	At will
Adapt to temperature	-20~+80℃

IP20   CE   -20 +80 ℃

Setting Range	Art.No.contact breaker(NC)	Art.No.contact breaker(NO)
0~60℃	JTO 011	JTS 011

Connection Example

JTO 011(NC)   Heater

JTS 011(NO)   e.g. Fan

JTS 011(NO)   e.g. Signal device

L
N

L
N

L
N

DIMENSION (mm)

33

64

44

1   2

WIRING DIAGRAM

JTO 011(NC)

JTS 011(NO)

<θ

<θ

1   2

1   2

L

L

N

N

Heater

Fan filter
Cooling equipment signal device
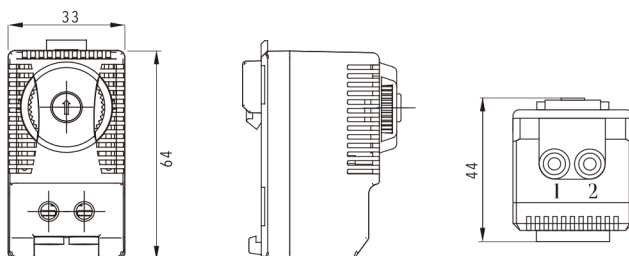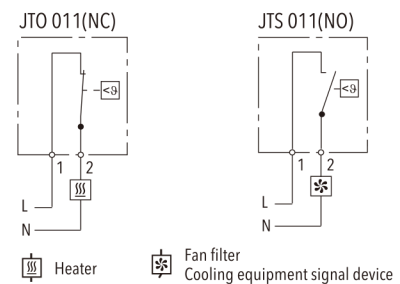
Control heater-

When the temperature inside the cabinet is lower than the minimum set value, close the circuit to increase temperature; When the temperature exceeds the set value,Disconnect the line.

Control fan filter-

When the temperature inside the cabinet exceeds the maximum set value, close the circuit to cool down; When the temperature is below the set value,Disconnect the line.

- Small and compact
- SLong electrical life
- Easy to install with 35mm DIN rail
- Jump type metal temperature sensing contact
- Convenient wiring and simple setup,
- Wide setting range

Outline Drawing

Alarm output contact, passive contact, AC 250V 5A

NC normally open, closed when dehumidification function fails

Definition of dehumidification function failure: Temperature or humidity sensor failure;

The dehumidifier operates continuously for 24 hours,
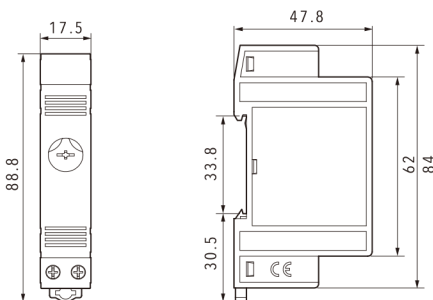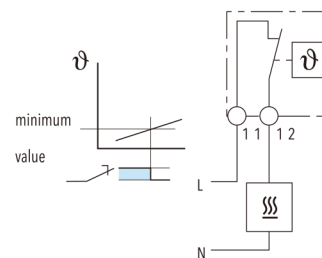
The relative humidity is still not less than 80%

KNC 011   KNO 011

IP20 CE -45 +80

SPECIFICATION

Temperature range	0~60℃
KNO 011 NC (Normally Closed)	When the temperature reaches the set value, it acts to disconnect the circuit
KNC 011 NO (Normally Open)	When the temperature exceeds the set value, it acts to close the circuit
Rated current and peak value	10/20A
Rated voltage and maximum switching load	250/250 V AC
Rated load AC1	2500 VA
Rated load AC 15 (230V AC)	250 VA
Single phase motor rated power AC 3 (230V AC)	0.125 A
Current capacitance DC 1:30/110/220 V	1/0.3/0.15 mW (V/mA)
Minimum switching load	500 (12/10)
Standard contact materials	AgNi
Temperature setting range (ventilation fan)	−20....+40 ℃ +0....+60 ℃ (NO)
Temperature setting range (heater)	−20....+40 ℃ +0....+60 ℃ (NC)
Switching temperature difference	7±4K
Electrical Service Life AC1	100 · 103
Environmental temperature range	− 45~+80℃

Setting Range	Art.No.contact breaker(NC)	Art.No.contact breaker(NO)
0~60°C	KNO 011	KNC 011

DIMENSION (mm)

17.5

47.8

88.8

33.8

62 84

30.5

HEATING CONTROL

ϑ

minimum value

ϑ

1 1 1 2

L

N

VENTILATION CONTROL

ϑ

Maximum value

ϑ

1 3 1 4

L

N

KTO 011/KTS 011 THERMOSTAT

LINKWELL ELECTRIC
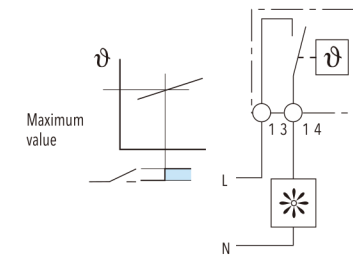
KTO 011:

Thermostat (Normally Closed):Commonly used to connect heaters and disconnect the circuit when the temperature reaches the set value.

KTS 011:

Thermostat (Normally Open):Commonly used to monitor filter fans, heat exchangers, or close circuit output signals when the temperature exceeds the set value.

- Small and compact
- Long electrical life
- Easy to install with 35mm DIN rail
- High switching performance
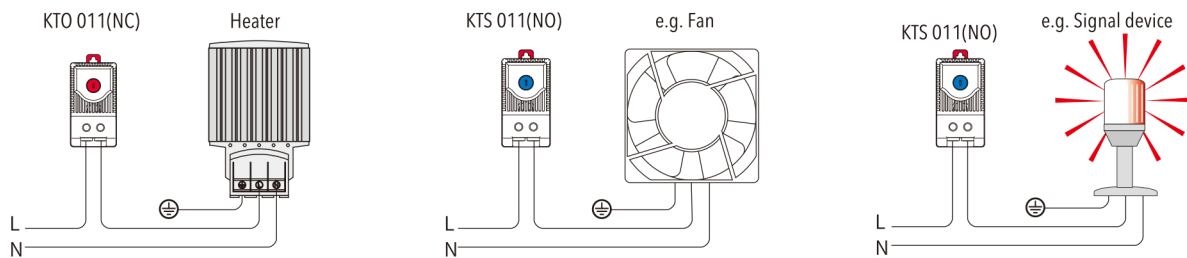- Convenient wiring and simple setup,
- Small size

KTO 011   KTS 011

SPECIFICATION

IP20   CE   -20 +80 °C

Temperature range	0~60℃
KTO 011 NC (Normally Closed)	When the temperature reaches the set value, it acts to disconnect the circuit
KTS 011 NO (Normally Open)	When the temperature exceeds the set value, it acts to close the circuit
Switching temperature difference	7k (± 4k tolerance)
Sensing element	Bimetallic temperature sensing material
Contactor type	Jump type contact
Contactor resistance	<10mΩ(with connecting wire)
Usage period	>100000 cycles
Maximum switching load	250vac, 10 (2) a, 120vac, 15 (2) a, 30wdc at 24vdc to 72vdc
Connection method	2 extreme sub-stage, the maximum clamping torque is 0.5nm: steel wire 2.5mm^2,
	Steel strand wire (wire end with iron bag)1.5mm^2
Shell	UL94V-0 plastic, light gray
Install	Installation of 35mm din rail
Size	65x33x39mm
Weight	40g
Fixed position	At will
Adapt to temperature	-20~+80℃

Setting Range	Art.No.contact breaker(NC)	Art.No.contact breaker(NO)
0~60℃	KTO 011	KTS 011

Connection Example

KTO 011(NC)   Heater

KTS 011(NO)   e.g. Fan

KTS 011(NO)   e.g. Signal device

L
N

DIMENSION (mm)

33
60
65
39

WIRING DIAGRAM

KTO 011(NC)   KTS 011(NO)

<9   <9

1   2   1   2

L   L

N   N

Heater

Fan filter
Cooling equipment signal device
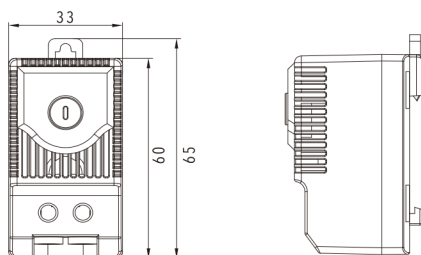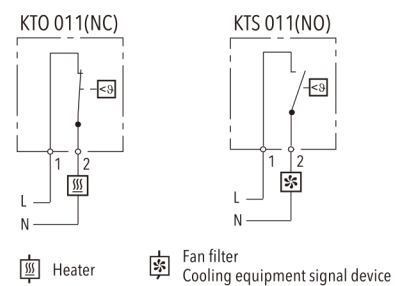
A temperature controller with two temperature settings

· **Normally open contact:** commonly used to monitor filter fans, heat exchangers, or close circuit output signals when the temperature exceeds the set value.

· **Normally closed contact:** commonly used to connect heaters and disconnect the circuit when the temperature reaches the set value.
The heater and refrigeration equipment can be independently switched to avoid temperature deviation caused by traditional switching.

- Wide setting range
- NO and NC integrated together
- Bimetallic temperature sensing material
- Easy to install with 35mm DIN rail
- High switching performance
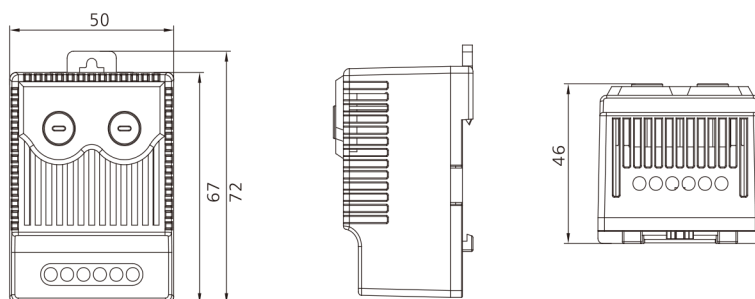- Independent temperature setting

IP20 CE -20 +80 ℃

SPECIFICATION

Temperature range	0~60℃
Switching temperature difference	7K (± 4K tolerance)
Sensing element	Bimetallic temperature sensing material
Contactor type	Jump type contact
Contactor resistance	<10mΩ (with connecting wire)
Usage period	>100000 cycles
Maximum switching load	250VAC, 10 (2) A, 120VAC, 15 (2) A, 30WDC at 24VDC to 72VDC
Connection method	2 Extreme sub-stage, the maximum clamping torque is 0.5Nm: steel wire 2.5mm², steel strand wire (wire end with iron bag)1.5mm²
Shell	UL94 V-0 plastic, light gray
Install	Installation of 35mm DIN rail
Size	67x50x46mm
Weight	40g
Fixed position	at will
Adapt to temperature	-20~+80℃

Setting Range	Art.No.contact breaker(NC)	Art.No.contact breaker(NO)
0~60℃	ZR 011	ZR 011

DIMENSION (mm)

50
67
72
46

WIRING DIAGRAM

ZR 011(NC/NO)

L
N
11 12   23 24
1
1
L 2
N 2

Heater
Fan filter
Cooling equipment signal device
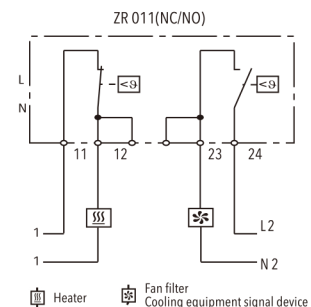
Especially suitable for controlling filter fans, heaters, and heat exchangers,
As a signal generator, this temperature regulator is also suitable for monitoring the internal temperature of the control cabinet.

- Small and compact
- Convenient wiring, terminal wiring method
- Dynamic heating, high temperature limitation
- Easy to install with 35mm DIN rail
- Wide voltage range
- Long service life

Performance

Bi-metal controller as a temperature sensitive element with thermal feedback
Contact population: Single-pole change-over contact as a quick-break contact
Voltage scope is wide, any type could be used from 24- 230 V
Time-saving connection terminal block could be installed screw from outside
Easy installation, could be installed to 35mm din rail vertically or horizontallyaccording to EN50 022it could be clipped to TS/35 cabinet profile with itsaccessory adapter.

IP20 **CE** -5 +60 ℃

SPECIFICATION

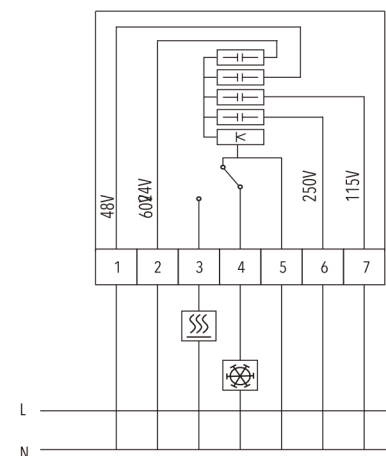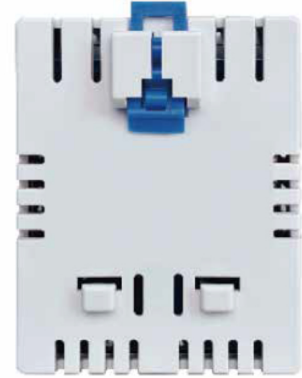| Temperature measurement range	5~60℃	
Rated working voltage	230/115/60/48/24V (AC) 60/48/24V (DC)	
Temperature sensing element	Bimetallic temperature sensing material	
Size	71x71x33.5mm	
Weight	About 105g	
Switch difference	Approximately 1K ± 0.8K	
Permissible contact load	KI.5-3 (heating)	KI.5-4 (cooling)
(1))=inductive load	Communication 10 (4) 1) A,	Communication 5 (4) 1) A,
At cos φ= at 0.6 hours	DC=30W	DC=30W

TERMINAL NUMBER

48V/60V N	24V N	≋	⊗	(1)L	(L2*)250V N	115V N
1	2	3	4	5	6	7

DIMENSION (mm)
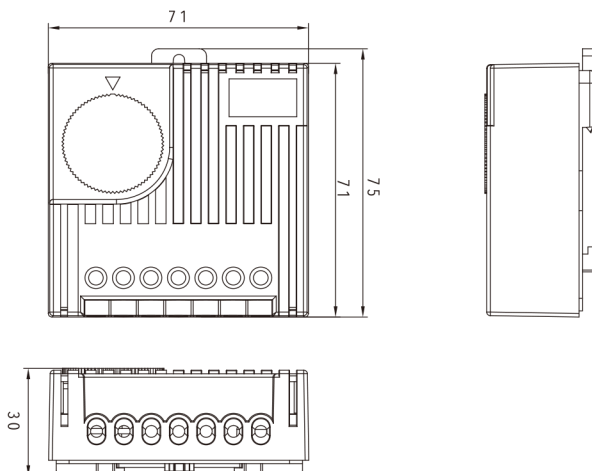
WIRING DIAGRAM

IP20   CE   -20 +80 ℃

SPECIFICATION

Temperature range	0~60℃
Switching Temperature Difference	7k (+4k tolerance)
Sensing Element	Electronic components
Contactor Type	Switching contactor (relay)
Contactor Resistance	<10m (with connecting wire)
Service Life	>100000 cycles
Maximum Switching Load	250v ac10 (2) a120v ac, 15 (2) a30w
Connection Method	4-pole terminal post, maximum clamping torque 0.5Nm: 2.5mm² steel wire, multi-stranded glued wire (wired) 1.5mm²
Shell	UL94V-0 plastic, light gray,
Install	Installation of 35mm din rail
Size	72x58x32mm
Weight	65g
Fixed Position	At will
Adapt To Temperature	-20~+80°C
Protection Level	IP20
Lcd Display	It can display the set temperature and the change of ambient temperature in the cabinet at all times

DIMENSION (mm)

KTC 3150

THERMOSTAT DUAL

LINKWELL ELECTRIC
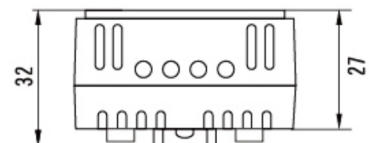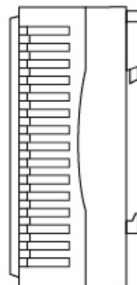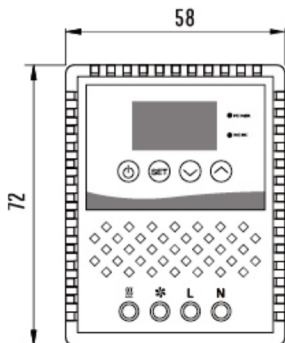
The KTC3150 temperature controller is used to control heaters, fan filters, heat exchangers, etc.

- Compact and compact
- SLong electrical life
- Easy to install with 35mm DIN rail
- Jump type metal temperature sensing contact
- Convenient wiring and simple setup,
- Wide setting range

Performance

Bi-metal controller as a temperature sensitive element with thermal feedback
Contact population: Single-pole change-over contact as a quick-break contact
Voltage scope is wide, any type could be used from 24- 230 V
Time-saving connection terminal block could be installed screw from outside
Easy installation, could be installed to 35mm din rail vertically or horizontally according to EN50 022it could be clipped to TS/35 cabinet profile with itsaccessory adapter.

IP20 CE -20 +80

SPECIFICATION

Storage temperature	-20~80℃
voltage	100-250V AC
Heating (Normally Open)	10A (2) DC 30W
Cooling (Normally Closed)	5A (2) DC 30W
Connection method	4-pole terminal block, 2.5mm²
Sensing element	Bimetallic temperature sensing material
Service life	>100000 cycles
Temperature control range	0~+60°C
Shell	Light gray plastic, symbol UL 94 V-0 standard
Size	37x64x46mm
Weight	About 60g

DIMENSION (mm)

WIRING DIAGRAM

LINKWELL
ELECTRIC
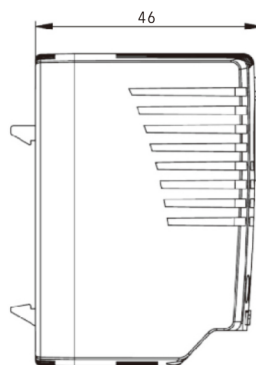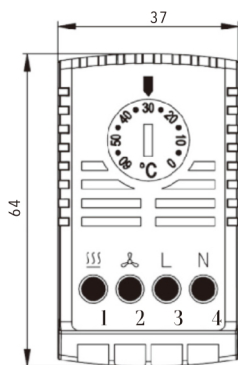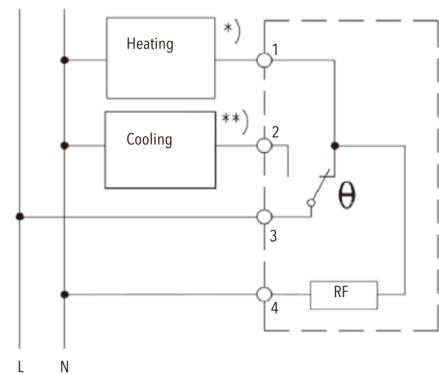
· Slim and compact mechanical temperature regulator
· Two-way control transfer contact
· Built-in conversion temperature difference compensation element, can be selected according to the control needs;

- High capacity
- Wide range
- Long-life
- 35mm din rail mounting

SPECIFICATION

Model	MTC-40-1K	MTC-60-1K	MTC-80-1K
Temperature setting range	-20°C~+40°C	0~+60°C	+20°C~+80°C
Conversion temperature difference	1K/3K		
Temperature sensor	Hot bimetal sheet		
Contact form	Bidirectional control transient SPDT one open one close transfer contact		
Contact resistance	<50mΩ		
Electrical life	> 100,000 times		
Load capacity	10(2)A 250VAC,15(2)A 120VAC,30W DC24V~72V		
terminal	Suitable for hard single-strand wire 2.5mm², multi-strand flexible wire 1.5mm²(using the bundle end)		
Installation mode	35mm DIN guide EN60715		
Shell material	Engineering plastic ABS gray, in line with UL94-VO flame retardant rating		
Overall dimension	40xW53xH60mm		
Installation position	At will		
Ambient temperature	45°C~+80°C(no condensation, no icing)		
Ambient humidity	<90%RH(no condensation, no icing)		
Class of protection	IP20		
Weight	About 40g		

IP20 CE -45 +80 °C

DIMENSION (mm)

60

53

40

WIRING DIAGRAM

HR

1 2 3 4 L N

HR

1 2 3 4 L
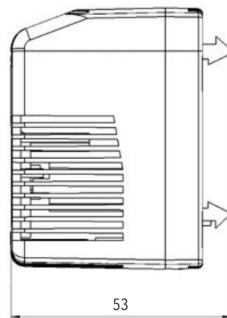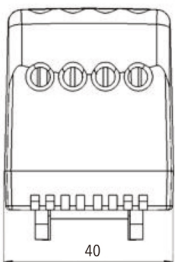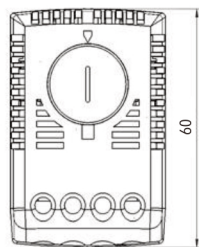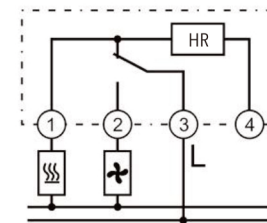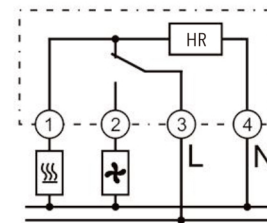
Heater

Fan filter
Cooling equipment signal device

Controlling

Working principle: By adjusting the range knob, the working range of the humidifier is determined, and the humidity sensor detects itWhen the actual humidity value in the air is less than the set value, the output power is supplied. When the actual value is greater than the set valueWhen setting the value; Output power outage. To prevent the load from frequently turning on at the set point, this product increases by 5% to 10% Afterwards, work again.

Load selection: The product can choose different sizes and types of loads according to customer requirements.

- 35% to 95% adjustable relative humidity
- High switching performance
- Three contact conversion
- Easy to install with 35mm DIN rail
- Long service life

SPECIFICATION

Switching error	4% relative humidity (± 3% tolerance)
Relative humidity range	35%~95%
Allowable wind speed	15m/sec
Contactor type	Conversion contact
Contactor resistance	<10mΩ
Service life	>50000 cycles
Minimum switching capacity	20V AC/DC 100mA
Maximum switching load	250V AC, 5 (1) A, DC 20W
Connection method	3-pole wiring terminal, maximum clamping torque 0.5Nm: 2.5mm² for steel wire,
	1.5mm² for multi-stranded glued wire (end)
Shell	UL94 V-0 plastic, light gray,
Install	Installation of 35mm DIN rail
Size	67x50x38mm
Weight	60g
Fixed position	At will
Operating/storage temperature	0~+60℃ (+32~+140 °F)/-20~+80℃ (-4~+176 °F)
Protection level	IP20

IP20   CE   -20 +80 ℃

Model	Set Range
MFR 012	35~95% RH

CONNECTION EXAMPLE

Heater   MFR 012   MFR 012   Fan filter

Ground wire   L   N   N   L   N   Ground wire   N

DIMENSION (mm)

50

% r.F/RH

67

38

N L 3 4

WIRING DIAGRAM

1   N
2   L
3
4

Load 1   Load 2

Heater   Fan filter / Cooling equipment signal device
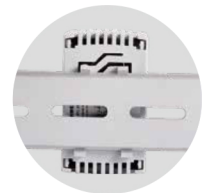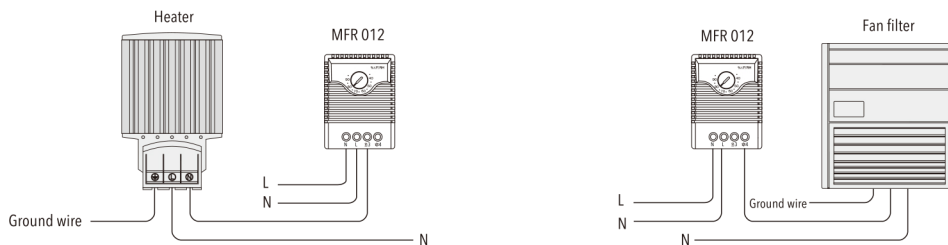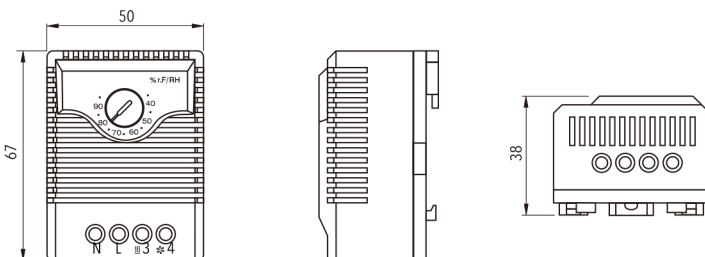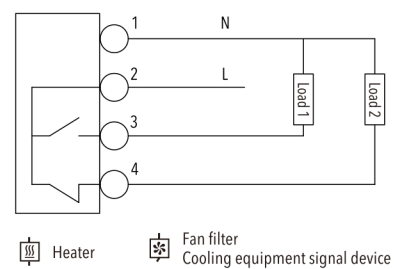
The humidistat MFR 012-2 is designed to control the heater in the switch box, which is wet when the humidity exceeds 65%Gas will be expelled, and this method can effectively prevent water droplets and rust.

- Adjustable relative humidity
- Transition contact
- High conversion capacity
- Easy access
- Rail clamp
- Long service life

SPECIFICATION

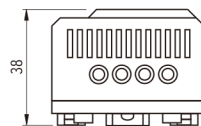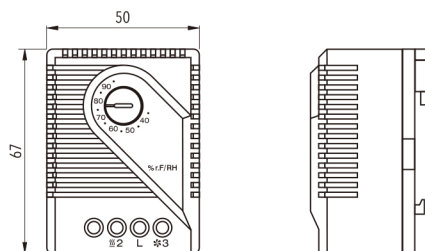| Switching error	4% relative humidity (± 3% tolerance)
Relative humidity range	35%~95%
Allowable wind speed	15m/sec
Contactor type	Conversion contact
Contactor resistance	＜10m Ω
Service life	＞50000 cycles
Minimum switching capacity	20V AC/DC 100mA
Maximum switching load	250V AC, 5 (1) A, DC 20W
Connection method	3-pole wiring terminal, maximum clamping torque 0.5Nm: 2.5mm² for steel wire,
	1.5mm² for multi-stranded glued wire (end)
Shell	UL94 V-0 plastic, light gray,
Install	Installation of 35mm DIN rail
Size	67x50x38mm
Weight	60g
Fixed position	At will
Operating/storage temperature	0~+60°C (+32~+140 ° F)/-20~+80°C (-4~+176 ° F)
Protection level	IP20

IP20 CE -20 +80 °C

Model	Set Range
MFR 012-2	35~95% RH

CONNECTION EXAMPLE

Heater   MFR 012

2   L

L
N

MFR 012   Fan filter

L   3

L
N

DIMENSION (mm)

50

67

38

WIRING DIAGRAM

<φ

2   L   3

N

L
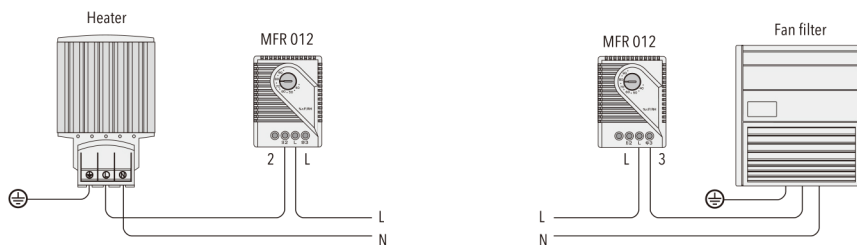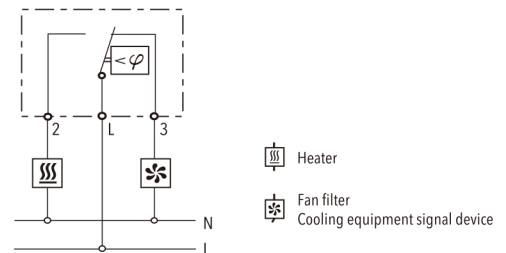
Heater

Fan filter
Cooling equipment signal device

The electronic humidity controller can sense the relative humidity inside the electrical box and turn on the heater at the set point to prevent the formation of water droplets inside the box. The LED screen at the adjustment knob will light up when the heater is working.

- Adjustable and preset relative humidity
- Optional working display (LED)
- High switching performance
- Easy to install with 35mm DIN rail
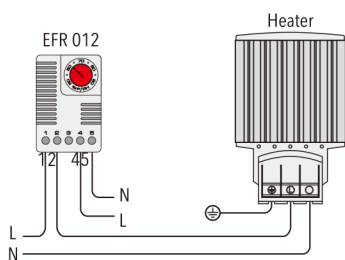- Temperature compensation
- Long service life

SPECIFICATION

| Switch differences	5% relative humidity (± 1% tolerance) at 25 ℃/77 °F (50% relative humidity)
Reaction time	About 5 seconds
Contact method	Switching contact (relay)
Service life	>50000 cycles
Maximum switching capacity (relay output)	240VAC, 8 (1.6) A: 120V AC, 8 (1.6) A: 24V DC, 4A
Electromagnetic compatibility	Complies with EU standards EN 55014-1-2, EN 61000-3-2, EN 61000-3-3
Optical indicator	LED
Connection method	5-pole terminal block, maximum clamping torque of 0.5Nm for steel wire, 2.5mm²
	stranded wire (wire clamp) 1.5mm²
Install	35mm DIN rail clamp (EN50022)
Shell	UL94 V-0 light gray plastic
Weight	About 70g
Fixed position	Vertical installation
Applicable temperature	0~+60℃ (+32~+140 °F)/-20~+70℃ (-4~+158 °F)
Storage humidity	90% relative humidity (non condensing)
Protection level	IP20

IP20 CE -20 +70 ℃

Model	Working voltage	Setting Range
01245.0-00	230v ac, 50/60hz	40 ~ 90% RH
01246.9-00	120v ac, 50/60hz	40 ~ 90% RH

CONNECTION EXAMPLE

EFR 012

Heater

WIRING DIAGRAM

DIMENSION (mm)

42

38

64.5

HYGROSTAT ELECTRONIC

ETR 011
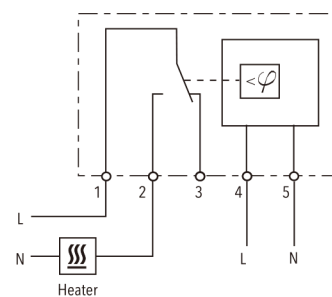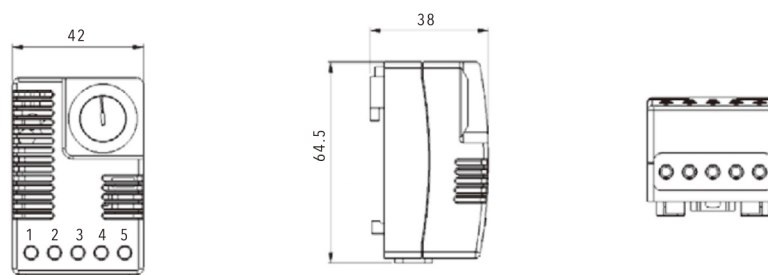
Used to control heating and cooling equipment, filter fans, or signal devices. During operation, the LED screen willOn (e.g. heater working).

- Adjustable and preset relative humidity
- Optional working display (LED)
- High switching performance
- Easy to install with 35mm DIN rail
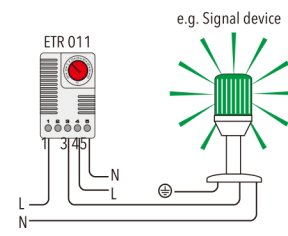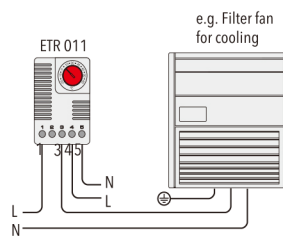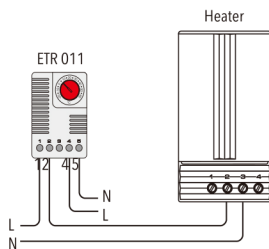- Temperature compensation
- Long service life

SPECIFICATION

Switch differences	5% relative humidity (± 1% tolerance) at 25 ℃/77 ° F (50% relative humidity)
Sensor element	NTC
Reaction time	5 seconds
Contact method	Conversion contact (relay)
Service life	>50000 cycles
Maximum switching capacity (relay output)	240V AC, 8 (1.6) A 120V AC, 8 (1.6) A ` 100WDC at 24V DC
Maximum inrush current	16A AC in 10 seconds
Optical indicator	LED
Connection method	5-pole terminal block with maximum clamping torque of 0.5Nm for steel wire, 2.5mm²
	stranded wire (wire clamp) 1.5mm²
Install	35mm DIN rail clamp, compliant with EU EN60715 standard
Shell	Light gray plastic, symbol UL 94 V-0 standard
Size	64.5x42x38mm
Weight	About 70g
Installation position	Vertical
Operating/Storage Temperature	-40~+85°C (-40~+185°F)
Operating/Storage Humidity	Maximum humidity 90% (non condensing)

IP20 CE -40 +85

Model	Working voltage	Setting Range
01131.0-00	230V AC, 50/60Hz	-20~60°C

CONNECTION EXAMPLE

Heater

ETR 011

e.g. Filter fan for cooling

ETR 011

e.g. Signal device

ETR 011

DIMENSION (mm)

42

38

64.5

WIRING DIAGRAM

1 2 3 4 5

L

N   Heater

HYGROTHERMOSTAT BIMETALLIC

LINKWELL ELECTRIC
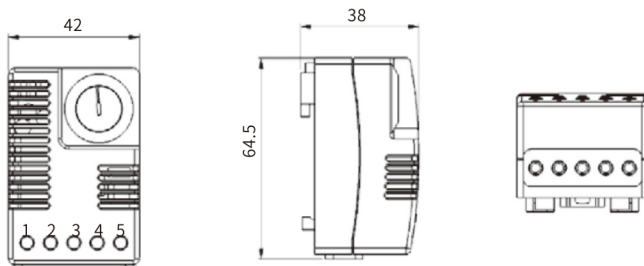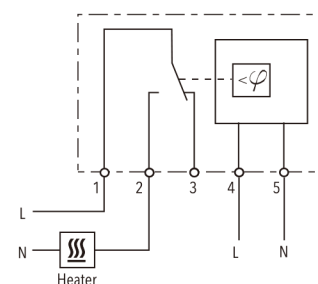
KTOMF012 humidity controller+temperature controller (heating)
**KTSMF012** humidity controller+temperature controller (refrigeration)

- Integrated temperature and humidity control
- With work indicator light
- Miniaturization suitable for various applications
- Stable and reliable long-term work
- BEasy to install with 35mm DIN rail
- ROHS compliant

Advantage

· Integrated temperature and humidity control, with AC input and output for easy use
· Equipped with a work indicator light for easy identification of whether it is working properly
· Miniaturization suitable for various applications
· Stable and reliable long-term work
· Complies with ROHS standards

Performance:

· Temperature control: Reach the set temperature point automatic power off, ±1~3°C
· Humidity control: Reach the set humidity point automatic power off, 5%-10%RH return difference value·
· Power supply: AC220V (other voltage optional)
· Power consumption: about MAX 46mA
· Working range: temperature -10~+50°C; Humidity 40-90%RH
· Storage conditions: temperature -20~+60°C; Humidity 20-95%RH
· Temperature sensitive element: bimetal sensor
· Temperature sensitive element: bimetal sensor

KTSMF012

KTOMF012

IP20   CE   RoHS COMPLIANT   -20 +80 °C
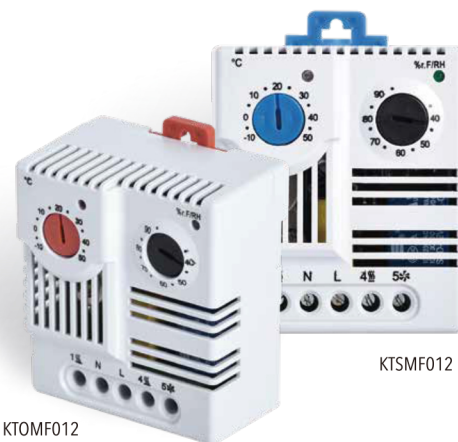
SPECIFICATION

Switching temperature error	7k (±4k)
Switching humidity error	4% relative humidity, ±3% error
Temperature control sensor	Bimetallic temperature sensitive material
Relative humidity range	35% - 95%.
Temperature controlled contact form	Jump contact point
Humidity contact form	Transfer contact
Service life	750,000 cycles
Minimum switching capacity	20VAC/DC 100m A
Maximum switching capacity	250VAC 5(1)A DC30W
Electrical connection	5-pole terminal, maximum clamping button moment 0.5Nm, rigid wire 2.5mm², multi-stranded wire (end) 1.5mm²
Install	35mm DN guide rail installation
Shell	Flame retardant UL94V-0 plastic, light gray RAL7035
Dimension	70 x 63 x 40mm
Weight	90g
Fixed position	Above cabinet
Operating temperature	0~+60°C(+32-+140F)
Storage temperature	-20~+80°C(-4-+176F)
Class of protection	IP20

DIMENSION (mm)

39.7

71

75

62

WIRING DIAGRAM

KTSMF012

PE
N
L

PE

KTOMF012

PE
N
L

PE
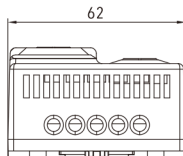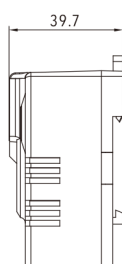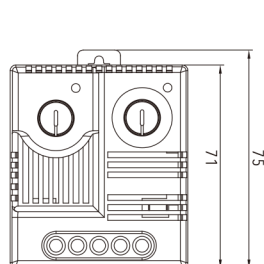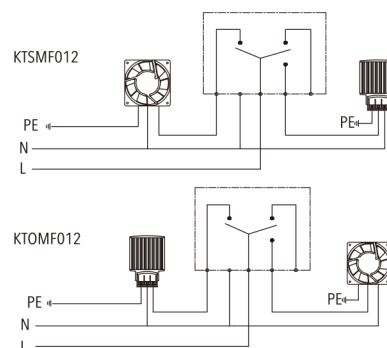
Performance:

The electronic humidity controller can sense the temperature and relative humidity inside the electrical box and turn on the heater at the set point(or replace with a fan) to prevent the generation of water droplets inside the box, and adjust the LED at the knob when the connecting device is workingThe screen will light up.

- Emperature and humidity adjustable
- Optical operating display (led)
- High switching capacity
- Easy to install with 35mm DIN rail
- High switching capacity
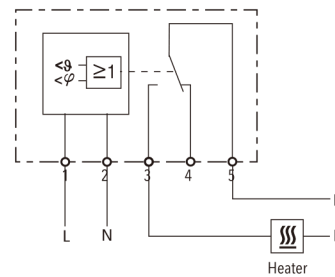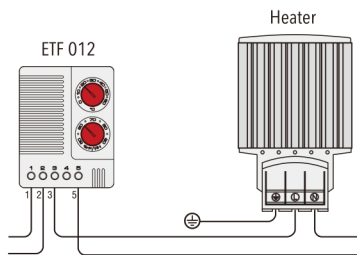- Long service life

SPECIFICATION

Switching differences (temperature)	2K (±1% tolerance) at 25℃/77°F (50% relative humidity)
Switching differences (humidity)	4% relative humidity (±1% tolerance) at 25°C/77°F (50% relative humidity)
Reaction time (humidity)	About 5 seconds
Contact method	Switching contact (relay)
Contact impedance	<10mΩ
Service life	NC:>50000 cycles NO:>100000 cycles
Maximum switching capacity (relay output)	NC: 240V AC, 6 (1) A NO: 240V AC, 8 (1.6) A, NC: 120V AC, 6 (1) A NO: 120V AC, 8 (1.6) A 24V DC, 4A
Electromagnetic compatibility	Acc.to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3
Optional indicator	LED
Connection method	
Install	35mm DIN rail clamp (EN50022)
Shell	UL94 V-0 light gray plastic
Size	77x60x43mm
Weight	About 0.20kg
Fixed position	Unlimited
Applicable temperature	0~+60°C (+32~+140°F)/-20~+80°C (-4~+176°F)
Protection level	IP20

IP20 CE -20 +80

Model	Working voltage	Setting temperature	Setting Range
01230.0-00	230V AC, 50/60Hz	0~60 °C	50 ~ 90% RH
01230.9-01	120V AC, 50/60Hz	0~60 °C	50 ~90% RH

CONNECTION EXAMPLE

Heater

ETF 012

WIRING DIAGRAM

<9
<φ   ≥1

1   2   3   4   5

L
L   N
Heater   N

DIMENSION (mm)

60

77

43

1 2 3 4 5
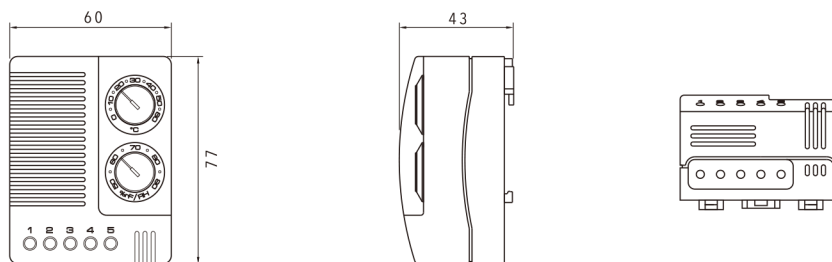
Overview

The product adopts MCU control system, respectively real-time temperature and humidity detection, and achieve real-time control, in order to ensureVerify that the temperature and humidity in the environ-ment are in an appropriate range.Intelligent communication function, the temperature and humidity measurement value through the microprocessor 485 signal directly transmitted to the background computer, the userYou can observe the environment of the remote control cabinet in real time.

1.Function description

The temperature and humidity values are displayed on a high definition LCD screen.Displaying diagram as below,I.E.(Figure A):

• Displaying humidity measurement by 2digits,i.e:60%RH

• Displaying humidity set value: In the set state,500ms/time,humidity set value is blinking,i.e: 40%RH

• Displaying temperature measurement value by 2 digits,i.e.:25°C

• Displaying temperature set value:In set state,500ms/time,temperature set value is blinking: i.e.:25°C

• Dehumidifying mode indication, i.e.(Figure B): When the equipment is in dehumidifying mode, it display the status by the dynamic fan

• Heating mode indication,i.e.(Figure C):when the equipment is in heating mode ,it display the status by heating signal
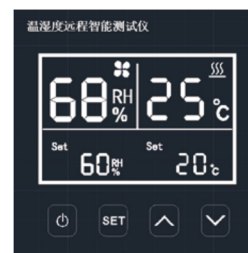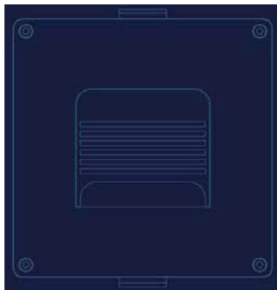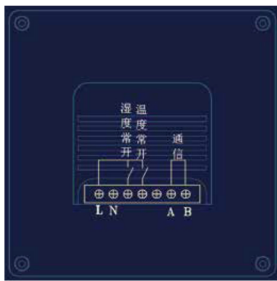

(Figure A)

(Figure B)   (Figure C)

(Figure D)

SPECIFICATION

Supply voltage	AC220V ± 10%, other voltages can be customized
Humidity measurement range	20-90% RH (without condensation)
Humidity measurement accuracy	± 5% RH (tested at 25°C)
Temperature measurement range	-20~80°C
Temperature measurement accuracy	± 1°C (tested at 25°C)
Humidity setting range	20-80% RH
Product Work Environment	Temperature -20~60°C, humidity 10~95% RH (no condensation)
Product storage environment	Temperature -10~40°C, humidity 10~90% RH (no condensation)
Humidification load size	Pure resistance load AC250V/10A, DC30V/5A
Power down memory	In the event of a power outage, the product's set parameters are automatically memorized.

(Figure 1)

(Figure 2)

(Figure 3)

1.2 Keys, as shown in Figure D

• "POWER" key: Press this key to switch the machine cycle.

• "SET" key: under the boot state, press the key, the product is in the humidity or temperature parameter setting State, when the humidity (or temperature) display digital tube flashes. No key pressed, 10 seconds later sinceMove out of setting state, display the current humidity measurement value.

• "Plus" key: in the setting state, press the key, according to each press, set value plus one, wetThe maximum set value of degree is 80%, and the maximum set value of temperature is 60

• No key pressed, 10 seconds later sinceMove to exit the setting state.

• "Minus" key: in the setting state, press the key, according to each press, set value minus one, wetThe minimum set value of degree is 10%, and the minimum set value of temperature is 5

• No key pressed, 10 seconds later sinceMove to exit the setting state.

2. Control the output

2.1Humidity control outputwhen the humidity measurement value is greater than the humidity set value, the output relay is closed and the dehumidification work beginswhen, the running indicator - fan rotation; when The humidity measurement value is less than (set value -5), stopdehumidify, and the running indicator is off. Humidity return difference is 5%rh to prevent load from opening frequently at zero cut-off point. Affect the service Life. During the initial power-on, the output delay is 3 seconds, that is, after 3 seconds, the output is wet after the Degree condition, the control dehumidification relay starts to operate and the display starts to run.

2.2 Temperature control outputwhen the temperature measurement value is less than the humidity set value, the output relay closes and starts heating (dehumidification).work, at this time, the running indicator -- heating wire display; when the temperature measurement is greater than (set value+2), stop heating, and the running Indicator is off. The temperature return difference is 2 to prevent the load at zero boundarypoints open frequently, Affecting the service life. During the initial power-on, the output delay is 3 seconds, that is, 3 secondsseconds later, When the humidity condition is satisfied, the control heating relay starts to operate and the display starts to run.

2.3 Power failure memoryto ensure that user parameter settings remain unchanged after power failure, memory protection power is addedyes.2.4 communication partthis product adopts 485 communication mode, temperature, humidity and running status parameters are uploaded to the remote calculation on board.

3. Overall dimensions and wiring drawings, as shown in Figure 1.

KTH082 remote intelligent monitor for temperature and humiditywww.cnlinkwell.com

3.1 The installation mode of this product is embedded, and the opening size is 82.5*82.5(unit: mm).

3.2 Schematic diagram of wiring terminals on the back of controller, as shown in Figure 2

(1) AC220V/50Hz: Connect terminals L and N;

(2) Load terminal: normally open point heater, normally closed point fan;

(3)485 communication terminal: Connect A and B.

4.USB converter connection, as shown in Figure 3.

4.1 USB on the left: Connect it directly to the USB port of the computer. Install the USB driver before the connection A program;

4.2 RS485 on the right: Directly connect to controller A and B.

Temperature and humidity remote monitoring and display system

Cabinet No	Measurement temperature	Measurement humidity	Running state
1#	25℃	60% RH	Runnimg
2#	25℃	60% RH	Stop
3#	25℃	60% RH	Runnimg
4#	25℃	60% RH	Stop
5#	25℃	60% RH	Stop