

## Features:

- Dual display, 3 digits, 7 segments LED display
- 1% accuracy for temperature, 5% accuracy for RH
- Temperature and humidity sensor range: 0-60°C, 0-85% RH  
This is the range for our standard temperature and humidity sensor
- Operating condition: 0-50°C, 0-85% RH
- TH100, TH700 is single loop controller, TH900 available with dual loop configuration
- ON/OFF control mode
- Heating or cooling configurable, humidity or dehumidify configurable
- Optional features
  - RS485 Modbus RTU Communication
  - 24VDC optional

## Technical Specifications

### Ordering Information

<b>TH100</b> (48mm*48mm)(Width*Height)	1	2	3	*	4	5	6	7
<b>TH700</b> (72mm*72mm)(Width*Height)								
<b>TH900</b> (96mm*96mm)(Width*Height)								

### 1:Control loops

<b>1</b>	Single loop	
<b>2</b>	Dual loop(only available with TH900)	

### 2:OP1 control mode for temperature control(#1 loop)

<b>N</b>	No output 1	Remark: heating or cooling mode is configurable via software, this is just a selection for factory default setting, you can change back and forth between heating or cooling control
<b>1</b>	Heating	
<b>2</b>	Cooling	

### 3:OP2 control mode for humidity control(#1 loop)

<b>N</b>	No output 1	Remark: humidify or dehumidify mode is configurable via software, this is just a selection for factory default setting, you can change back and forth between humidify or dehumidify control
<b>1</b>	humidifying	
<b>2</b>	dehumidifying	

### 4:OP3 control mode for temperature control(#2 loop, TH900 only)

<b>N</b>	No output 1	Remark: heating or cooling mode is configurable via software, this is just a selection for factory default setting, you can change back and forth between heating or cooling control
<b>1</b>	Heating	
<b>2</b>	Cooling	

### 5:OP4 control mode for humidity control(#2 loop, TH900 only)

<b>N</b>	No output 1	Remark: humidify or dehumidify mode is configurable via software, this is just a selection for factory default setting, you can change back and forth between humidify or dehumidify control
<b>1</b>	humidifying	
<b>2</b>	dehumidifying	

### 6:Communication

<b>N</b>	Without Communication
<b>K</b>	With Modbus RTU RS-485 communication

### 7:Power supply

<b>96</b>	85~265Vac 50/60HZ
<b>24</b>	24VDC/AC

Eg: TH100-1-1-1-N-N-N-96

TH100, single loop, heating(factory default), humidify(factory default) with out RS-485 communication, 85~265Vac source

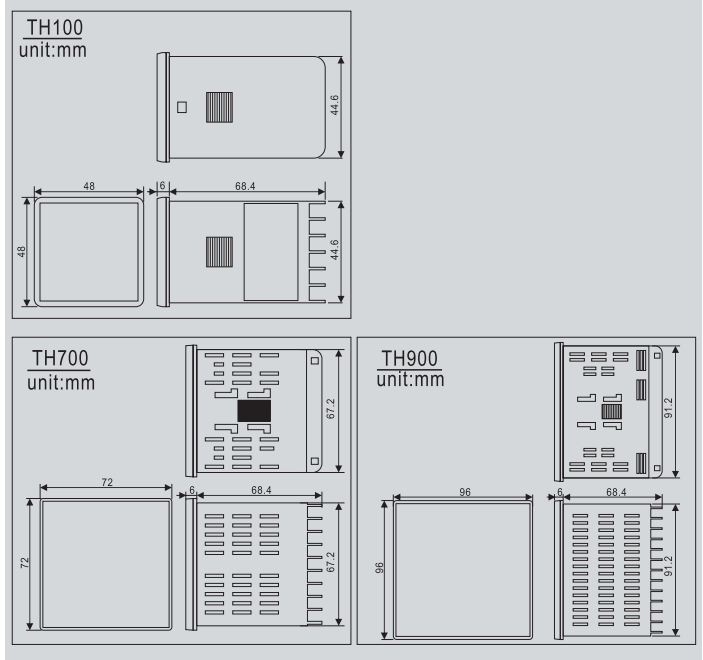
### Spare parts

Temperature and humidity sensors  
Item number: HTMR-030  
Specs:  
Temperature NTC10K/3950,,  
humidity hygistor 0-3V  
power source: 5Vdc  
Cable length: 5 meters  
PVC cable

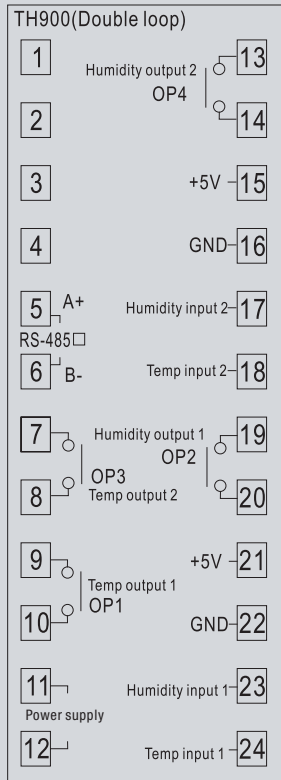
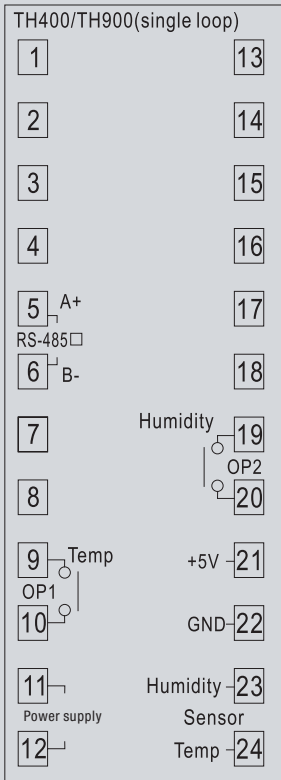
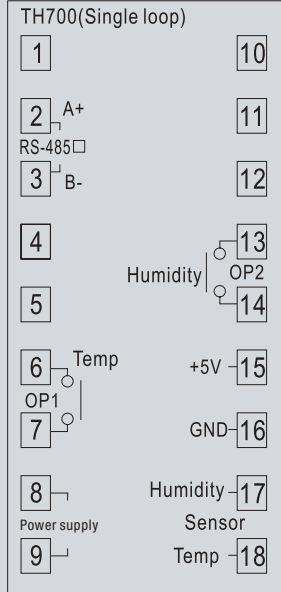
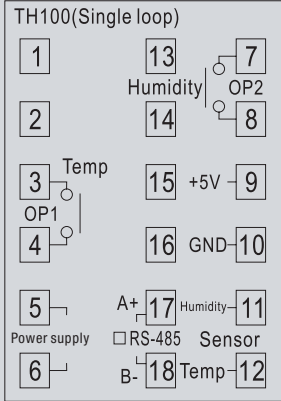


**HTMR-030**

### Size and mounting



## Terminal arrangement



Relay rating: 3A/250VAC  
For resistive load