

NTS 960 SERIES TEMPERATURE & HUMIDITY SENSOR (ROOM)

SENSORS & OTHERS



NTS 960 SERIES

NTS 960 series temperature and humidity sensor is specially designed for indoor temperature and humidity detection. A sensor with small size, simple installation and easy operation.

There are three output modes available: current, voltage, and RS485. It can be widely used in computer rooms, buildings, warehouses and other places where temperature and humidity measurement is required.

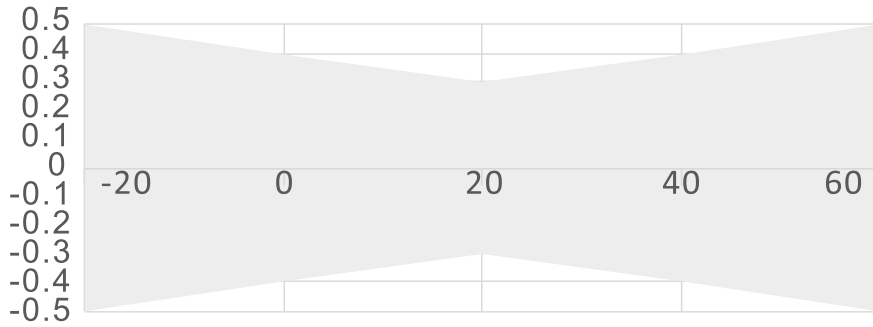
PRODUCT FEATURE

- Meet the standard 86-box installation mode
- User friendly, lightweight, and sleek design with clear LCD backlight display for Temperature & Humidity.
- Built with imported high-precision sensor and control with robust stability and anti-interference protection.
- Optional passive temperature output
- CE certification, RoHS
- Optional single temperature and single humidity output

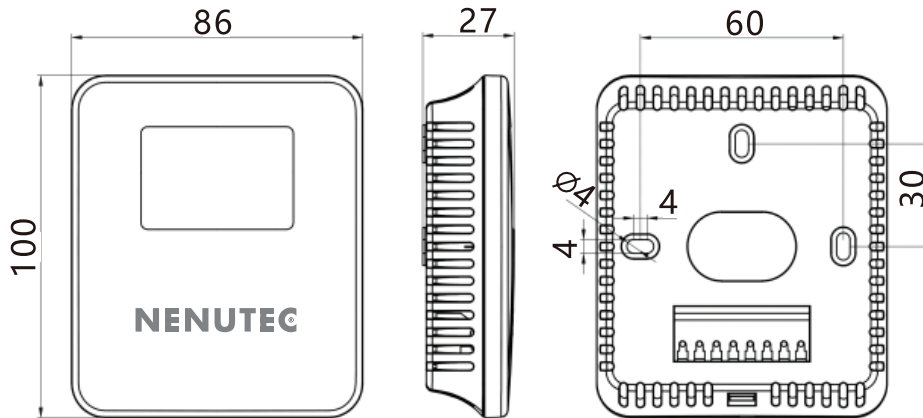
TECHNICAL SPECIFICATION

RELATIVE HUMIDITY	
TRANSMITTER	Digital
RANGE	0%~100%RH
OUTPUT	RS485 / Modbus, 0~10VDC, 4-20mA optional
ACCURACY	± 3% @ 20°C & 20~80%RH
RESPONSE TIME	≤10s (20°C, slow flow air)
TEMPERATURE	
TRANSMITTER	Digital or thermal resistance, see model selection table
RANGE	0~50°C, -20~60°C etc.
OUTPUT	4-20mA, 0~10VDC, RS485/Modbus optional
THERMAL RESISTANCE	See model selection instruction and thermal resistance index table
ACCURACY	Digital type: ±0.3°C @ 20°C; Thermal resistance type ±0.2~0.4°C@25°C, See selection table
POWER SUPPLY	Voltage type/RS-485: 15~35VDC/24VAC±20% (AC power supply requires isolated power supply) Current type: 19.5~35VDC(RL=500Ω) 9.5~35VDC(RL=0Ω)
OUTPUT LOAD	<500Ω (Current type), ≥2KΩ(Voltage type)
DISPLAY	LCD display optional, with unit display and backlight (4~20mA without backlight)
CASE MATERIAL	PC case
WORKING ENVIRONMENT	-20~60°C, 5%~95% RH (non-condensing)
PROTECTION GRADE	IP30

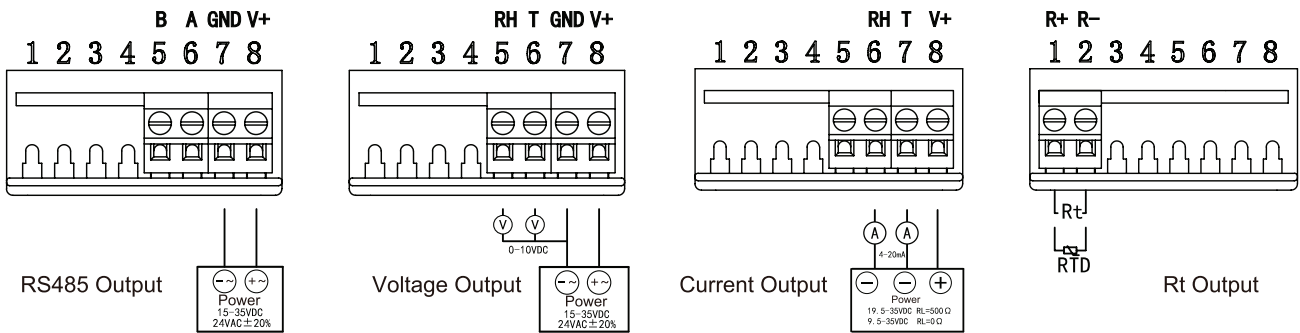
DIGITAL SENSOR TEMPERATURE ACCURACY CURVE



PRODUCT SIZE



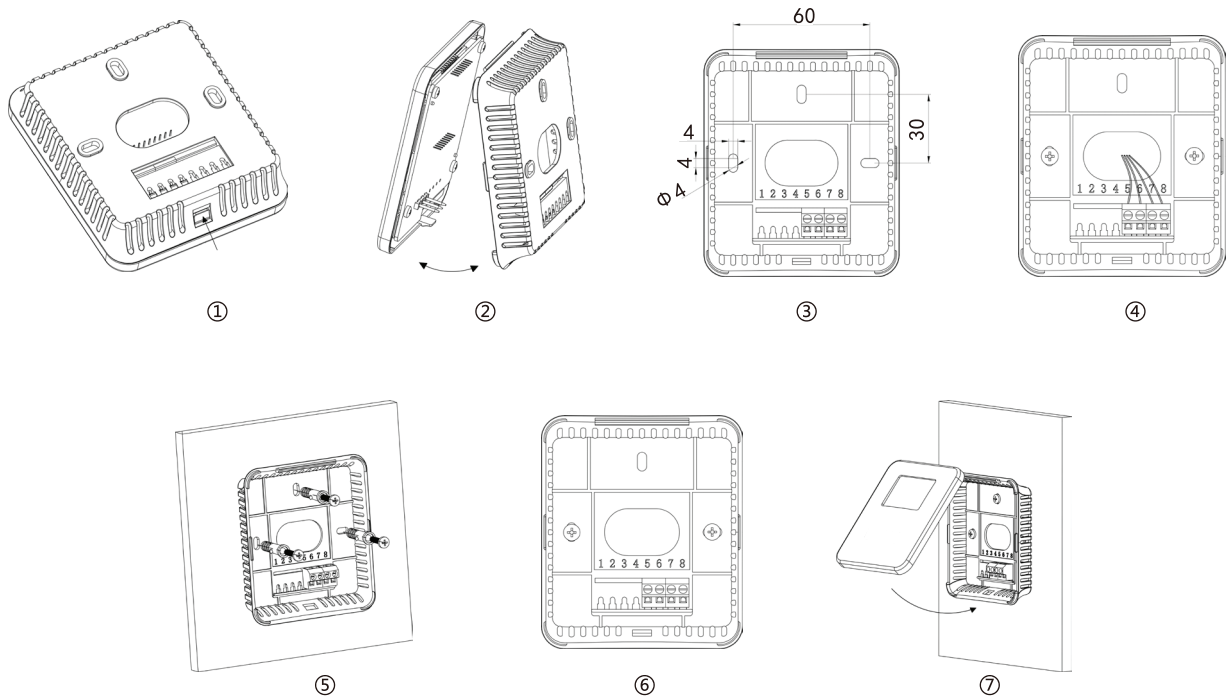
WIRING INSTRUCTIONS



NTS 960 SERIES TEMPERATURE & HUMIDITY SENSOR (ROOM)

SENSORS & OTHERS

PRODUCT INSTALLATION



1. Press the open button under the back cover of the transmitter to open the transmitter (as shown in Figures 1 and 2);
2. Complete the electrical connection according to the wiring diagram, and introduce the cable through the wire hole (as shown in Figure 4);
3. There are three mounting holes on the back cover of the transmitter, which can be fixed on the wall with expansion screws (as shown in Figure 5), or on the 86 boxes embedded in the wall with screws (as shown in Figure 6);
4. Align and fasten the front cover with the bottom case to complete the installation (as shown in Figure 7);

MODEL SELECTION TABLE

Series No.		Temp. Output	Hyphenated	Housing	Humidity Output	Temp. Range	Display Mode
NTS	96	3	-	R	2	1	1
		1= 0~10VDC (3-wired)		R= Room	1= 0~10VDC (3-wired)	0= Null	0= No
		3= 4~20mA (2-wired)			3= 4~20mA (2-wired)	1= 0~50°C	1= LCD Display
		4= PT1000, $\pm 0.2^{\circ}\text{C}@0^{\circ}\text{C}$			8= RS485/Modbus	2= -20~60°C	
		5= PT100, $\pm 0.2^{\circ}\text{C}@0^{\circ}\text{C}$					
		6= NTC20K, $\pm 0.4^{\circ}\text{C}@25^{\circ}\text{C}$					
		7= NTC10K, $\pm 0.4^{\circ}\text{C}@25^{\circ}\text{C}$					
		8= RS485/Modbus					

1. Only when the temperature output option is 1,3,8, the corresponding temperature range 1 or 2 needs to be selected; otherwise only 0 can be selected.
2. Prolonged exposure of this product's sensor probe to high concentrations of chemical gases may cause the sensor's readings to shift.

PRECAUTIONS

1. Avoid installation in areas that are prone to heat transfer and will directly cause a temperature difference with the area to be measured, otherwise the temperature and humidity measurement will be inaccurate.
2. Install in a relatively stable environment, avoid direct sunlight away from windows, air conditioners, heating and other equipment, and avoid facing windows and doors.
3. Not suitable for use in environments with oil, organic solvents and corrosive gases.
4. When not in use for a long time, please store it in a dry environment.