OverView

The **CTH27** series is a compact and efficient solution designed for indoor temperature and humidity detection and control. It combines advanced engineering with user-friendly features, making it ideal for environments requiring precise monitoring and management of temperature and humidity levels.

CTH27

Indoor Temperature Humidity Controller

Features

- Compact and space-saving design
- Easy installation and operation
- Built-in protection against lightning surges, electrostatic discharge, and group pulses
- High voltage resistance for durability
- Strong anti-interference capabilities
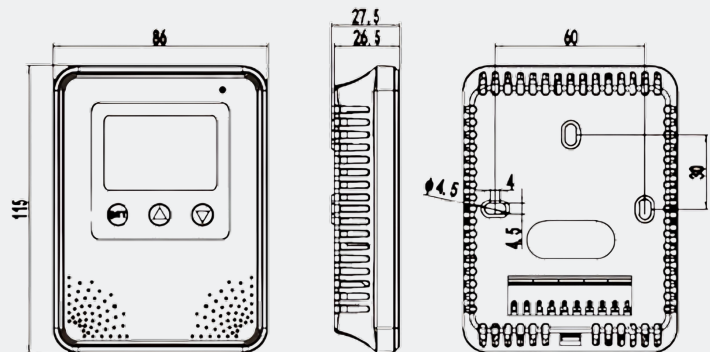- Integrated alarm function for enhanced monitoring.

Applications

- Computer rooms
- Office buildings
- Warehouses
- Industrial facilities
- Other environments requiring temperature and humidity control

Dimensions

01

NEO WAVE®

Specifications:

Indoor Temperature Humidity Controller

Relative humidity

Sensor	Digital
Range	0%~100%RH
Output	RS485/Modbus, 0~10VDC
Accuracy	±3%@ 20°C& 20~80%RH
Response time	≤10s(20°C, slow flow air)

Temperature

Sensor	Digital or thermal resistance, see Order Ref No
Range	0~50°C, -20~60°C etc.
Output	0~10VDC, RS485/Modbus
Thermal Resistance	See Order Ref No. and Thermal Resistance Indexing Table
Accuracy	Digital:±0.3°C@0~60°C/Thermal resistance:±0.2~0.4°C@25°C
Power Supply	**Voltage type/RS485 type** :15~35VDC/24VAC±20% **Note**: when RS485 and voltage type uses AC power supply, an isolation transformer is required
Output Load	≥10 KΩ (voltage output)
Display Accuracy	0.1°C, 0.1%RH
Display	LCD display and keys with unit display and backlight
Alarm function	1xBUZZER, 1xLED
Relay	2xSPST, 3A/30VDC, 3A/250VAC
Shell Material	PC
Working Environment	-20~60°C ,5%-95%RH (Non-condensing)
Protection Level	IP30

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Selection Code:

Code and description					Remark
CTH27		Indoor Temperature Humidity Controller			Model
	3	±3%RH(±0.5°C)			Accuracy Range
	V10	0~10VDC(3-wire)			Humidity Output
	RS	RS485/Modbus			
		V10	0~10VDC(3-wire)		Temperature Output
		RS	RS485/Modbus		
		1	Pt100, ±0.2°C@0°C		
		2	Pt1000, ±0.2°C@0°C		
		3	NTC10K, ±0.4°C@25°C		
		4	NTC20K, ±0.4°C@25°C		
			1	NO	Temperature Range
			2	0~50°C	
			3	-20~60°C	
			9	Others (customerized)	
				1 Setting button, backlight LCD display with unit	Display
				1 Alarm only	Alarm and relay
				2 Relay only	
				3 Alarm and relay	

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