

OverView:

CTH21 Temperature and Humidity Transducer is specifically designed for indoor temperature and humidity detection and control. It features a compact design, easy installation, and user-friendly operation. With built-in protection against lightning surges, electrostatic discharge, group pulse, and voltage fluctuations, it offers strong anti-interference capabilities and includes an alarm function. This transducer is ideal for use in computer rooms, buildings, warehouses, and other environments requiring temperature and humidity measurement and control.

Feature:

- Standard switch box installation for easy setup.
- Sleek and lightweight design with an LCD backlight displaying both temperature and humidity.
- High precision imported sensors ensure long-term stability and strong anti-interference.
- Optional passive temperature output available.
- Adjustable temperature and humidity offset for convenient on-site operation.
- CE and RoHS certified.
- Equipped with relay and alarm functions.

CTH21

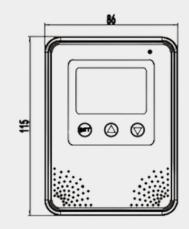
Indoor Temperature and Humidity Controller

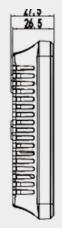


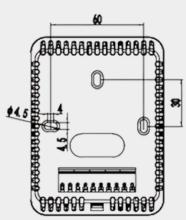
Dimentions:

Application:

This transducer is ideal for use in computer rooms, buildings, warehouses, and other environments requiring temperature and humidity measurement and control.









Specifications:

Indoor Temperature and Humidity Controller

	Relative Humidity								
Sensor	Digital type								
Measuring Range	0%~100%RH								
Output	RS485/Modbus, 0-1 0VDC, 4-20mA								
Response Time	≤10s (20°C, slow flow air)								
Accuracy	±3%@ 20 C & 20~80%RH								
Temperature									
Sensor Measuring	Digital or thermal resistance, see Order Ref No								
Range	0~50 C, -20-60 C etc.								
Output	0~10VDC, RS485/Modbus								
Thermal resistance	0.1°C, 0.1%RH								
Thermal resistance	See Order Ref No. and Thermal Resistance Indexing Table								
Output Load	≥10 KΩ (voltage output)								
Accuracy	Digital type: ±0.5 C@20C; Passive Thermal resistance type: typical±0.2-0.4C@25C, see Order Ref No.								
Display	LCD display and keys with unit display and backlight								
	Voltage type/485 type: 15-35VDC/24VAC±20%								
Power Supply	RS485 type: 15-35VDC/24VAC±20%								
Tower cappiy	Note: when RS485 and voltage type uses AC power supply, an isolation transformer is required								
Shell Material	PC Shell								
Protection Grade	IP30								
Alarm function	1xBUZZER, 1xLED								
Relay	2xSPST, 3A/30VDC, 3A/250VAC								
Working Environment	"-20 - 60" ° B19C ,5%-95%RH (Non- condensing)								



Selection Code:

	Code and description							Remark	
CTH21			Ind	oor t	Model				
	3					Accuracy Range			
		V10					0-10VDC(3-wire)	Humidity	
		RS					Output		
			V10				0-10VDC(3-wire)		
	RS								
1 2				Pt100, ±0.2C@0C				Temperature	
							Output		
			3						
			4						
				1					
			2 0-50C				Temperature		
			3			"-20-60"C	range		
					9			Others (customized)	
					1	S	etting button, backlight LCD display with unit	Display and setting button	
						1	Alarm only		
						2	Relay only	Alarm and relay	
					3	Alarm and relay			