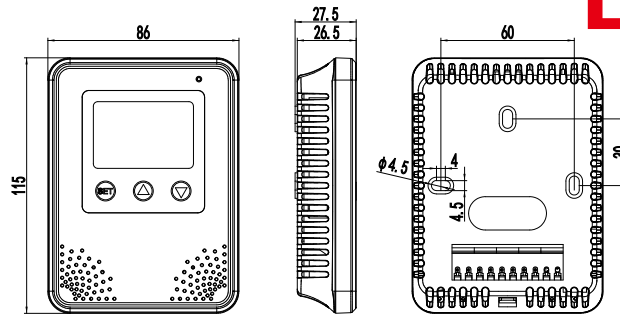


LFH21

Temperature and Humidity controller

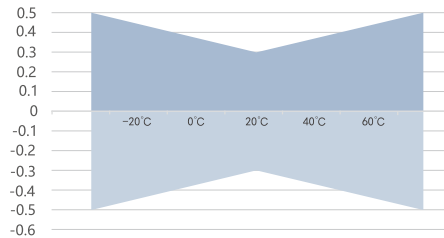


LFH21 Temperature and Humidity Controller is a product specially designed for indoor temperature and humidity detection and control. It has the advantages of compact size, simple installation and convenient operation, it has special design for lightning surge, electrostatic discharge, group pulse, voltage resistance, etc., strong anti-interference ability, and has an alarm function. It is widely used in computer rooms, buildings, warehousing and other places where temperature and humidity measurement and control are required.



Dimension in : mm

DIGITAL SENSOR TEMPERATURE ACCURACY CURVE



LFH21 Order Ref No

LFH21 3 V10 V10 2 1 3
A B C D E F

A Accuracy	B Humidity output	C Temperature output	D Temperature range	E Display and setting button	F Alarm ansrelay
±3%RH(±0.3°C)	V10=0~10VDC (3-wire)	V10=0~10VDC(3-wire)	0=No	1=Setting button, backlight	1=Alarm only
	RS=RS485/Modbus	RS=RS485/Modbus	1=0~50°C	LCD display with unit	2=Relay only
		0=PT1000, ±0.2°C@0°C	2=-20~60°C		3=Alarm ans relay
		1=PT100, ±0.2°C@0°C	8=Customized range		
		2=NTC20K, ±0.4°C@25°C			
		3=NTC10K, ±0.4°C@25°C			

1. Only when the temperature output option is V10, the temperature range 1-8 needs to be selected accordingly; otherwise, only 0 can be selected.
2. Long-term exposure of the sensor probe of this product to high-concentration chemical gases may cause the sensor readings to shift

Specification

General	Value
1. 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)
2. Temperature	
Sensor	Digital or passive thermal resistor, details in below selection table
Range	0~50°C, -20~60°C ETC
Output	RS485/Modbus, 0~10VDC
Thermal resistance	Details in selection table and thermal resistance graduation table
Accuracy	Digital type: ±0.3°C@20°C; See table below , Passive thermal resistance: typical ±0.2~0.4°C@25°C
Power supply	RS485: 15~35VDC/24VAC±20% Voltage: 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 and buttons	LCD display and keys with unit display and backlight
Alarm function	1×BUZZER, 1×LED
Relay	2×SPST, 3A/30VDC, 3A/250VAC
Shell material	PC shell
Operating environment	-20~60°C, 5%-95%RH(Non-condensing)
Protection Grade	Ip30