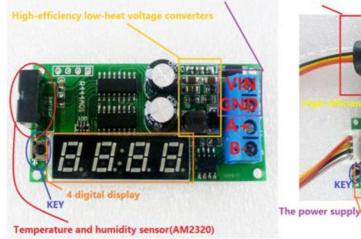
The power supply range is 5-40V (6.5-28V recommended) External temperature and humidity sensor (AM2320)





Built-in sensor(R444A01 A)

External sensor (R444A01 B)

Features:

Working voltage: DC 5-40V(6.5-28V recommended)

Working current: Digital tube turn off is 5MA(12V), Digital tube turn on is 18MA(12V)

MODBUS RTU protocol, 03 Read, 06 Write. Serial baud rate: 9600 (default), N, 8, 1

By modifying the RS485 address, up to 247 module s can be connected (More than 16 devices, it

is recommended to use RS485 repeater)

Temperature and humi dity sensor is AM2320

The voltage conversion module is DD4012SA,a High-efficiency and Low-heat voltage Converter

Size: Module is 59 X 30 X 18MM, Shell is 73 X 37 X 23MM, External sensor(only R444A01_B) is 60

X 26 X 13

Weight: Module is 16g, Shell is 16g, External sensor is 15g

Use Please refer to: "R444A01 modbus rtu protocol"

Note:

With the built-in sensor version (R444A01_A), turn on the display for a long time will Will let the temperature rise 1-2 degrees Celsius. It is recommended to turn off the digital tube, or use a version with an external sensor (R444A01_B)

R444A01 relative temperature performance table

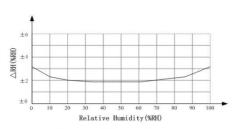
parameter	condition	min	typ	max	unit
resolution			0.1		$^{\circ}$
			16		bit
Accuracy			±0.5		$^{\circ}$
Range		-40		80	°C
Repeatability			±0.2		°C
Interchangeability					
Response time	1/e(63%)		<5		S
Drift			±0.1		°C/yı

±0.6			
10.4			,
±0.4			
±0.2			
10.2			
±0 -20			

The maximum error of the temperature sensor

R444A01 relative humidity performance table

parameter	condition	mi n	typ	max	unit	
resolution			0.1		%RH	
Range		0		99.9	%RH	
Accuracy	25°C		±3		%RH	
Repeatability			±0.1		%RH	
Interchangeability		Completely interchangeable				
Response time	1/e(63%)		<5		S	
Sluggish			±0.3		%RH	
Drift	Typical values		<0.5		%RH /yr	



relative humidity of maximum error





If "Eror" is displayed for a long time, it indicates that the sensor is not connected or damaged.



After 5 seconds, display the temperature or humidity



Trigger "" KEY "button to switch the display temperature and humidity.

(This parameter is powered down memory)



Press and hold the "KEY" button for 3 seconds to turn off or turn on the display.

(This parameter is also powered down memory)

How to use:

- 1 Display "Eror" after power-on
- If "Eror" is displayed for a long time, it indicates that the sensor is not connected or is damaged
- 2 After 5 seconds, display the temperature or humidity
- $3\ \mathrm{Trigger}$ " KEY "button to switch the display temperature and humidity. (This parameter is powered down memory)
- 4 Press and hold the "KEY" button for 3 seconds to turn off or turn on the display. (This parameter is also powered down memory)

Note: If the digital tube is turn off after power-on, press and hold the "KEY" button until the digital tube is turn on

Wiring diagram:

