HUATO

HE500 Series Temperature & Humidity Transmitter

Introduction

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HE500 series temperature and humidity transmitter adopt Switzerland imported 2 in 1 sensor, the output it provides including voltage, current and modbus .etc. Its unique design cools the device effectively and avoids signal jamming. With built-in high performance, lower power SCM, it provides wide range and high precision measurements. Its power supply can be DC 9V ~ 30V. This series of products is an industrial grade product, which is designed for strong electromagnetic interference environment. It is specially designed for fast transient pulse group, electrostatic discharge, and withstand voltage. The sensor can accurately measure the temperature and humidity within the range of -30~70°C and 0~100%RH. The circuit uses temperature compensation and the product works stably and reliably.

Button calibration function

HE500A-TH
Semi-external sensor

HE500A-EX
External sensor

Features:

- Imported high-precision temperature and humidity integrated sensor.
- Professional industrial design, avoid test influence caused by circuit heating.
- Standard output: 4~20mA/0~5V/0~10V.
- Patented construction technology, easy to install and easy to maintain.
- High precision, stable consistency protection performance.
- Key board with set up & calibration function.
- Sound&light alarm when exceed the setting.

Technical Specifications

Resolution	Temperature：0.1℃ Humidity：0.1%RH
Power supply	9V-30V DC
Product dimension	100x100x30mm(3.94x3.94x1.29 inch)
LCD size	60x40mm（2.36x1.57 inch）
Weight	200g
Accessories	User manual，Screw
Certification	CE/RoHS

Model List

Model	HE500A-TH	HE500A-EX	HE500A-EX+	HE500V5	HE500V5-EX	HE500V5-EX+	HE500V10	HE500V10-EX	HE500V10-EX+
Temperature accuracy	±0.5℃	±0.5℃	±0.3℃	±0.5℃	±0.5℃	±0.3℃	±0.5℃	±0.5℃	±0.3℃
Humidity accuracy	±5%RH	±5%RH	±3%RH	±5%RH	±5%RH	±3%RH	±5%RH	±5%RH	±3%RH
Sensor type	Semi-external sensor	External 3m wire		Internal	External 3m wire		Internal	External 3m wire	
Measuring range	-30~70℃ (optional -20~80 ℃)			0~50℃	-30~70℃		0~50℃	-30~70℃	
Output	4~20mA			0~5V	0~5V		0~10V	0~10V	
Wire mode	3 lead terminals			4 lead terminals					
Measuring range	0~100%RH								

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Method of Cable Installation

HE500A		
4	5	6
T_out	RH_out	Vcc
Temperature Output	Humidity Output	Positive DC Input
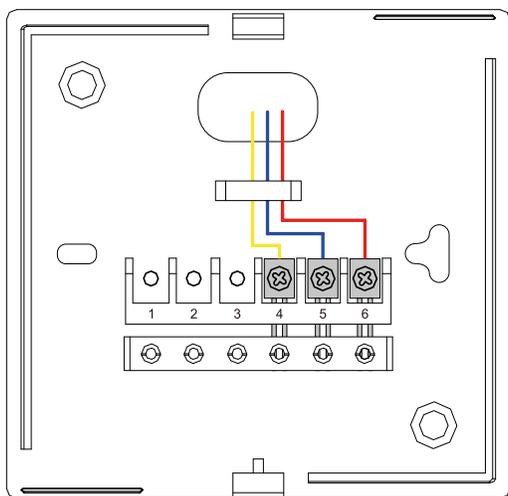
HE500V5/V10			
3	4	5	6
T_out	RH_out	Gnd	Vcc
Temperature Output	Humidity Output	Negative DC Input	Positive DC Input
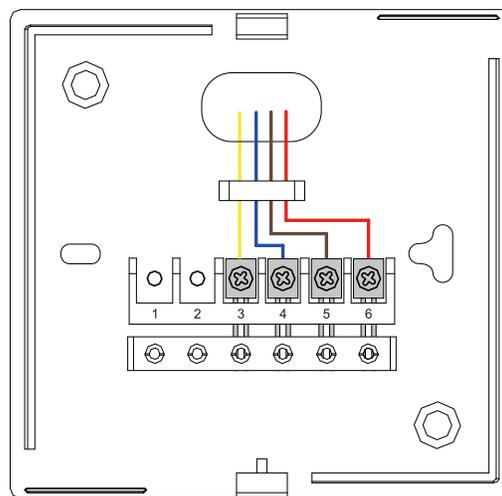
HE500A

HE500V5/V10

Package & Accessories

Packing box   Instrument   Screw   External sensor

Packing box   Instrument   Screw

Applications

HE500 seriea are designed for temperature and humidity control in conditioning and ventilation application in the following sectors:pharmacy, museums, cleam rooms, ventilation ducts, industrial and civil sectors, crowded places, canteens, auditoria, gyms, hig-density farms, greenhouse, PC room, Production workshop, warehousing, archive room, library,etc.

Warehousing

PC room

Production workshop