

### Introduction

The HE500 series is an industrial temperature and humidity current/voltage transmitter that supports built-in, semi-external and external sensors. This product uses a 2-in-1 high-precision temperature and humidity sensor imported from Switzerland. It is designed for strong electromagnetic interference environments. Transient pulse group, electrostatic discharge, and withstand voltage are specially designed. 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.



#### Features:

- Imported high-precision temperature and humidity integrated sensor.
- Professional industrial design, avoid test influence caused by circuit heating.
- Standard output: Modbus/RS485.
- 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

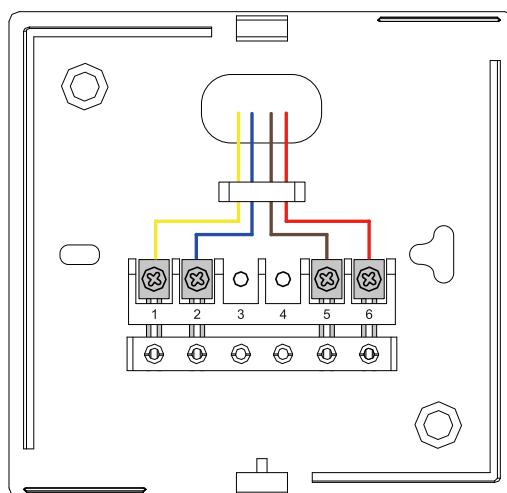
Resolution	Temperature: 0.1°C Humidity: 0.1%RH
Power supply	9V-30V DC
Product dimension	100x100x30mm(3.94x3.94x1.29 inch)
LCD size	60x40mm (2.36x1.57 inch)
Weight	200g
Accessories	User manual, Screw
Certification	CE/RoHS

#### Model List

Model	HE500M	HE500M-EX	HE500M-EX+	HE500N	HE500N-EX	HE500N-EX+
Temperature accuracy	±0.5°C	±0.5°C	±0.3°C	±0.5°C	±0.5°C	±0.3°C
Humidity accuracy	±5%RH	±5%RH	±3%RH	±5%RH	±5%RH	±3%RH
Sensor type	Internal	External 3m wire	External 3m wire	Internal	External 3m wire	External 3m wire
Measuring range	-40~120°C	-40~120°C	-40~120°C	-40~120°C	-40~120°C	-40~120°C
Output	Modbus			RS485		
Wire mode	4 lead terminals					
Measuring range	0~100%RH					

### Method of Cable Installation

HE500M/N			
3	4	5	6
T_out	RH_out	Gnd	Vcc
Temperature Output	Humidity Output	Negative DC Input	Positive DC Input



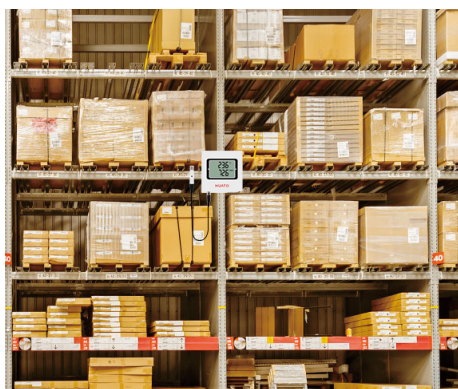
HE500M/N

### Package & Accessories



### Applications

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



Warehousing



PC room



Production workshop