

## User Manual



AW5485

Temperature And Humidity Transmitter



Certified ACC ISO 9001:2015

### Product overview

The AW5485 has the characteristics of small volume, light weight, wide range, high precision, fast response speed and good long-term stability, etc, therefore it can be widely used in building automation, HVAC and climate signal collection, museum and hotel weather station, logistics and medical industry, room temperature monitoring and any other field that needs of the air temperature and humidity measurement and control.

### Technical data

**Temperature range:** -40~70°C

**Humidity range:** 0~99.9%RH

**Accuracy:** ±0.5°C; ±3%RH

**Sensitivity attenuation value:** <0.1°C/Years;  
<0.5%RH/rs

### Precautions for Use

To ensure the accuracy and stability of this product, please do not install this product in the following environment:

- Close to heat source, cold source or direct sunlight
- In the neat, water mist, and other condensing devices for a long time

### Installation

1. The transmitter shall be installed at a location that is typical of the temperature and humidity to be measured in the environment.
2. Make sure there is enough space around the transmitter to allow air to circulate.
3. do not install directly on the heating and cooling equipment, and steam.
4. Keep away from power lines during installation.

### Error sources

1. Place for too short a time/change the position frequently.
2. Too close to the cold source/heat source.
3. It is directly exposed to dust or other environmental pollution without maintenance.

**Resolution:** 0.1

**Sampling period:** 2.5s

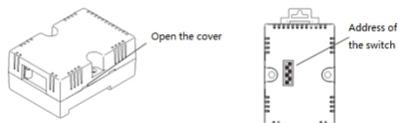
**Power supply:** 12V (DC)

**Output:** RS485 (Modbus RTU)

**Current consumption:** ≤50mA

### Installation Order

- 1). Connect the cable transmitter of the 4 core wire (or COAXPAIR) to the A+,VCC,GND, Bfeet of the transmitter connector (the shielding layer with the shield wire is connected to the power source);
- 2). The other end connect to the power supply and computer or other equipment.
- 3). Power on after checking the wire connection, and check the transmitter output if normal.
- 4). Now the transmitter work normally.



### Disclaimer

Do not use this product in a protective device or emergency stop device, or in any application that may result in personal injury due to the failure of the modified product, unless there is a special purpose or authorization for use. Please follow the instructions of the product before using and installing. In case of any personal injury accident or property loss caused by non-compliance with this recommendation, the Company will not be liable for any liability and claim, and will not be liable for any claim arising from such accident to the company's managers, employees, agents and distributors.

### Quality assurance

We guarantee the quality of our products to direct buyers for 12 months (from the date of delivery). The company shall publish the technical specifications of the data manual of the product. If the product is proved to be defective within the warranty period, the company will provide free repair and replacement. The user shall satisfy the following conditions:

1. Notify the company in writing within 14 days after finding the defect.
  2. Send it back to the company at the buyer's own expense
  3. Product is within the warranty period
- The company is only responsible for the defects caused by the application of the products in accordance with the technical conditions of the products. No guarantees are made for specific application scenarios.

### License Agreement

1. Without the written permission of the Company, the contents in the Instructions shall not be copied and disseminated in any form, nor shall the contents be disclosed to any third party.
2. The ownership of the Company and the third party Yonyou software can only be used by users after signing a contract or obtaining a software license.
3. The contents of the manual are subject to change without prior notice.

(1) Baud rate : 9600

(2) Address:



### Monitoring software installation guidelines:

The software download link:  
<http://www.aosong.com/cn/downloads/index.asp>.

#### Internal register mapping address

Registers	Address	Registers	Address	Registers	Address
Humidity	0x0000	Reserve	0x0008	Humidity upper limit alarm value	0x0010
Temperature	0x0001	Reserved	0x0009	Enabled humidity upper limit alarm	0x0011
Reserved	0x0002	Reserved	0x000A	Humidity lower limit alarm value	0x0012
Reserved	0x0003	Reserved	0x000B	Enabled humidity lower limit alarm	0x0013
Reserved	0x0004	Temperature upper limit alarm value	0x000C	Reserved	0x0014
Reserved	0x0005	Enabled temperature upper limit alarm	0x000D	Reserved	0x0015
Reserved	0x0006	Temperature lower limit alarm value	0x000E	Reserved	0x0016
Reserved	0x0007	Enabled temperature lower limit alarm	0x000F	Reserved	0x0017

### Certificate of approval

Product Name:                      Product Model:  
Factory No. :                      Inspector:  
Date of manufacture:

### Warranty card

User contact:	
Model:	
Purchase date:	
Warranty:	

\* If the content crisis, then the warranty card is invalid, because the user is required to record the content when purchasing.  
\* The warranty items in the warranty card are breathtaking and the free items bound in the warranty card are maintained.  
\* During the warranty period, in case of any failure of the product, users are requested to issue a real warranty card to the dealer, purchase an invoice and propose maintenance requirements.