

Acore RH10BA Temperature and Humidity Integrated Transmitter

One、Qualification :

supply electricity : 12~24VDC

range: temperature : 0~50°C, humidity : 0~100%RH

output : 4~20mA or 0~5VDC

accuracy: temperature : $\pm 0.5^{\circ}\text{C}$, humidity : $\pm 3\%RH$; (15~90%RH, 25°C)

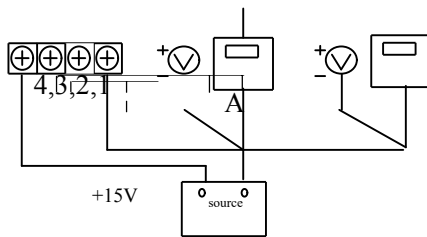
Storage conditions: temperature : 0~50°C, humidity : 20~80%RH;

output loading : $\leq 500 \Omega$



two、Wiring (voltage type)

Connector 4: Red(source +) Terminal 3: Yellow (temperature output) Terminal 2: Blue (humidity output) Terminal 1: Black (power-)



Three、Install

1. Install in a stable environment, avoid direct light, away from Windows, air conditioning, heating and other equipment, avoid direct to the window、 Door 2. Installation height is the height of the human body or the height of the equipment in the main required environmental conditions

Four、Shape and Size and Installation Diagram

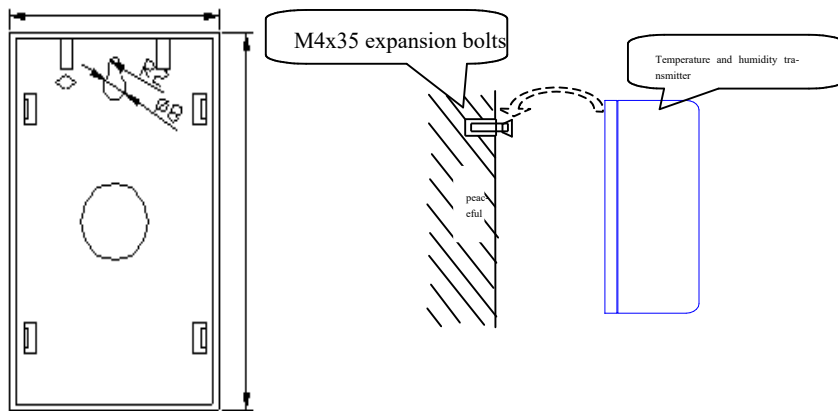


Plate size diagram

Wall installation diagram

Five、Applicable Occasions

Widely used in communication rooms、 Smart buildings、 metro 、 market 、 library 、 Program control and so on。

Six、Matters Need Attention :

- 1、 Please read the instructions carefully before use. Ensure that the wiring is correct. Any wrong wiring may cause irreversible damage to the transmitter.
- 2、 Installation and use Avoid installation in areas that are easy to transfer heat and directly cause temperature difference with the test area, Otherwise, the temperature and humidity measurement will be inaccurate.

- 3、 Please pay attention to the acceptance method of transmitter, See appendix: acceptance specification 。
- 4、 Prevention of chemical reagents, oil、 Dust and other direct damage to the sensor, Do not use in condensation, ice, high temperature。 Please do not go cold, thermal shock 。
- 5、 As a measuring instrument, transmitter, The inspection cycle is one year, Please use the corrected value after verification。

follower : acceptance specification :

1. Temperature and humidity transmitter belongs to measuring instrument, Pay attention to the standard transfer level during acceptance, High level measuring instruments must be used to accept low level measuring instruments 2. Please keep the temperature and humidity of the test room before the transmitter is calibrated and accepted, Generally ensure the environmental temperature and humidity as: temperature : $25 \pm 2^{\circ}\text{C}$, humidity :

35~The 75%RH transmitter shall be sent to the verification room for pre-stabilization for more than 2 hours before acceptance

3. Pay attention to the balance time of each temperature and humidity point during transmitter verification acceptance: See table below:

Application conditions	20~30%RH	30~40%RH	40~50%RH	50~60%RH	60~70%RH	70~80%RH	80~90%RH
$\leq 0.1\text{ m/s}$	2h	1.5h	1h	1h	1.5h	2h	2.5h
$0.1 \sim 0.5\text{ m/s}$	1.5h	1h	45min	45min	1h	1.5h	2h
$0.5 \sim 1\text{ m/s}$	45min	30min	20min	20min	30min	45min	60min
$1 \sim 2\text{ m/s}$	30min	20min	15min	15min	20min	30min	45min
$\geq 2\text{ m/s}$	20min	15min	10min	10min	15min	20min	35min

pour : 20 listed in the table row~30%RH means that the humidity at the test point changes from 20%RH to 30%RH

The column in the table lists wind speed conditions

When the range of humidity variation does not strictly follow the above table, The time can be reduced by half after adding the two ranges of data, for instance : Change from 40%RH to 70%RH at 0.1 m/s, Stable time 2.5h is ok.

- 1. pay attention to : Keep the temperature constant. Temperature fluctuations in the test environment do not exceed $\pm 0.5^{\circ}\text{C}$, Test room temperature fluctuation does not exceed $\pm 2^{\circ}\text{C}$
- 2. The comparison standard used for acceptance shall be checked regularly: generally speaking , Annual inspection of cold mirror dew point meter, High precision handheld watch check every 6 months.
- 3. The acceptance test environment should be set at $25 \pm 2^{\circ}\text{C}$, If used under other temperature conditions、 Acceptance please order advance notice。

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