

# Taishio

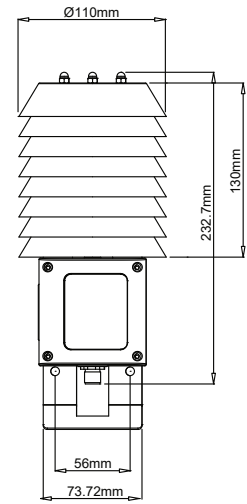
## Outdoor Temperature and Humidity Transmitter with Shield - TS307

### Features

- High accuracy and long-term stability
- Capable of temperature compensation and linear adjustment

### Applications

- Monitoring for HVAC process/ air conditioning/ environmental ventilation control
- Building / factory / hospital/ clean room / Lab. / storeroom
- Cooling tank/crisper/environmental chambers/weather station
- Indoor pool/greenhouse/livestock nursery
- Pharmaceutical/textile/agriculture/food/manufacturing industry/monitoring for process/drying facility



### SPECIFICATIONS

#### TS307-T381H001-XNP

|                    |  |
|--------------------|--|
| Installation       | Outdoor                                  |
| Temperature Range  | 0 to 80°C                                |
| Output 1           | 4 to 20mA                                |
| Humidity Range     | 0 to 100%RH                              |
| Output 2           | 4 to 20mA                                |
| Display            | No                                       |
| Electric Connector | Plastic cable gland                      |
| Filter             | PC membrane filter<br>Standard: PC Probe |

|                   |            |
|-------------------|------------|
| Dew Point         | -40 ~ 60°C |
| Signal Connection | 3-wire     |

#### Linear Accuracy (at 25°C)

|                                   |   |
|-----------------------------------|---|
| Temperature                       | $\pm 0,15^{\circ}\text{C} \pm 0,002^{\circ}\text{C} \times T_{\text{actual}}$ |
| Humidity                          | $\pm 2\% \text{RH}$   |
| Temperature Influence of Body     | 0,05%RH/°C  |
| Load Resistance                   | Current output: max. 500Ω / Voltage output: min. 10KΩ                         |
| Response Time T90 (temp. at 25°C) | <20S(membrane filter) : < 30S(sintered filter)                                |

#### Environment

|                           |                       |
|---------------------------|-----------------------|
| Media Measured            | Air                   |
| Working Temp. for Housing | -20 ~ 60°C            |
| Working RH for Housing    | 0 ~ 95% (non-cond.)   |
| Working Temp. for Probe   | PC probe : max. 120°C |
| Storage Temperature       | -25 ~ 60°C            |

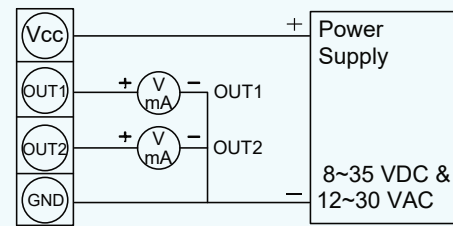
#### Electrical

|                              |   |
|------------------------------|---|
| Power Supply                 | 8 ~ 35VDC / 12 ~ 30VAC  |
| Current Consumption          | DC 24V : 60mA / DC 12V : 120mA; AC 24V : 140mA / AC 12V : 230mA |
| Protection Degree            | body : IP65   |
| Electric Protection          | Polarity protection, over-voltage                               |
| Housing and Probe Protection | PC fire-proof class(PC-110)                                     |

#### CE Certification

EN 61326-1 : 2006, EN 61326-2-2 : 2006; Emissions EN 55011 : 2009/A1 : 2010; Immunity IEC 61000-4-2 : 2008/IEC 61000-4-3 : 2006 / A1 : 2007 / A2 : 2010, IEC 61000-4-8 : 2009

#### WIRING DIAGRAM



4P terminal

#### MODEL

#### DESCRIPTION

|                    |  |
|--------------------|--|
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|--------------------|--|