

# Taishio

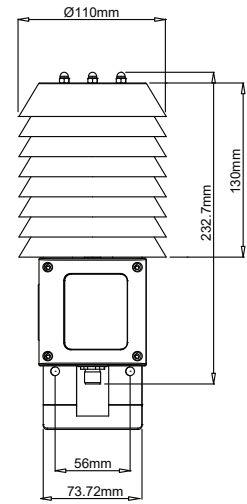
## Outdoor Temperature and Humidity Transmitter with Shield - TS307

### 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 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

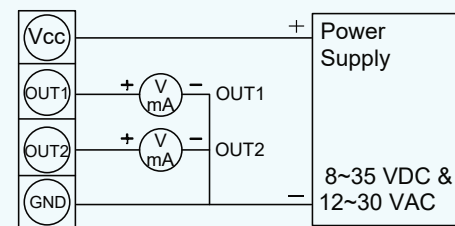
#### Electrical

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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