

DUCT TEMPERATURE & HUMIDITY TRANSMITTER



STHD

STHD2235, STHD2245, STHD2236, STHD2246

Application

“STHD” Duct Temperature & Humidity Transmitter is intended for control transmitter by sensing relative humidity and temperature of room ventilation and air-handling units.

Also can be used interface detect transmitter with sensing value display or auto control system of building.

- Pulp/textile/food warehouse, greenhouse, computer room, R&D room, hospital etc.
- Use measuring detector: In case of optimistic function system.

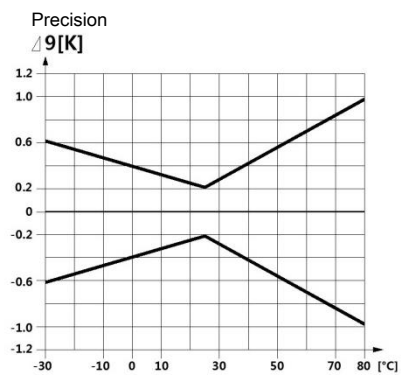
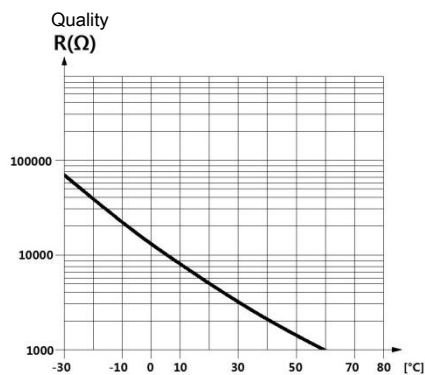
Technical Data

MODEL	OUTPUT SIGNAL	MEASURING RANGE	ACCURACY(at 23°C)
STHD2235	NTC3KΩ / 4~20mA	-30~+130°C / 0~+100%RH	±0.2°C(at 25°C) / ±1.8%RH(at 0~80% RH)
STHD2245	NTC10KΩ / 4~20mA	-30~+130°C / 0~+100%RH	±0.2°C(at 25°C) / ±1.8%RH(at 0~80% RH)
STHD2236	NTC3KΩ / 0~10VDC	-30~+130°C / 0~+100%RH	±0.2°C(at 25°C) / ±1.8%RH(at 0~80% RH)
STHD2246	NTC10KΩ / 0~10VDC	-30~+130°C / 0~+100%RH	±0.2°C(at 25°C) / ±1.8%RH(at 0~80% RH)

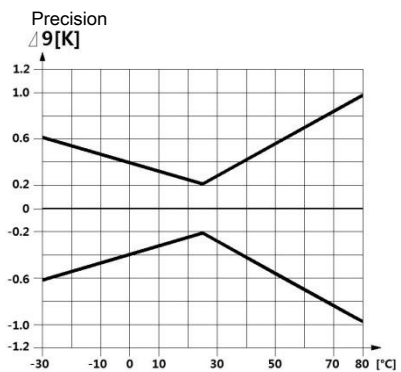
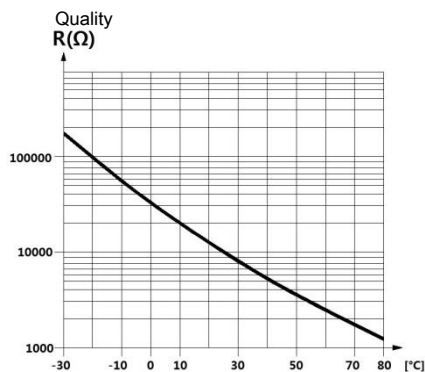
- SUPPLY VOLTAGE : 15~30VDC or 24VAC±20% / (2-wire) 15~30VDC
- POWER CONSUMPTION : DC/8mA, AC/20mA typical
- SENSING ELEMENT : NTC / Capacitiv Polymer
- ACCURACY : at 25°C Within ±0.2°C, at 0~80%RH within ±1.8%RH
- OUTPUT SIGNAL : Temp. / NTC 3KΩ, NTC 10KΩ, Humi./ 4~20mA, 0~10VDC
- SENSING TIME : Temp/30sec.Humidity:10sec (at 2m/sec velocity)
- AMBIENT TEMPERATURE : 1) On Operation: -10~+80°C (Probe : -35~+80°C)
2) On Transportation & Storage: -10~+70°C
- AMBIENT HUMIDITY : 1) On Operation : below 5~95%RH
- PROTECTION CLASS : IP 65 to EN 60529
- WEIGHT : 165g

Accuracy

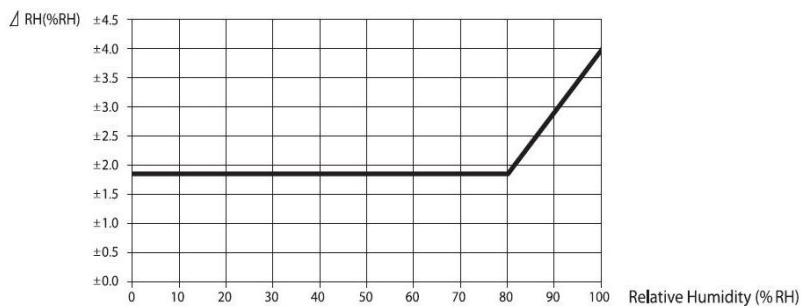
► NTC 3K Ω



► NTC 10K Ω (II)



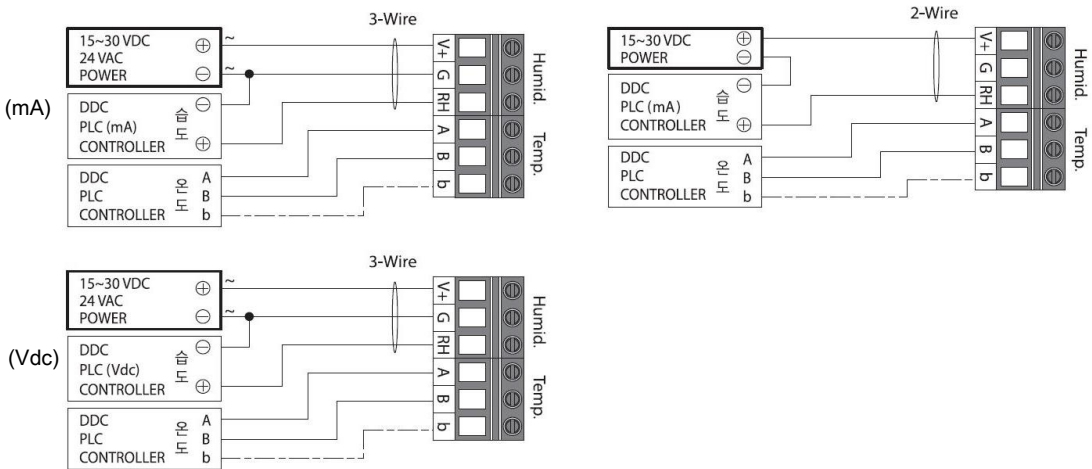
► Relative Humidity Accuracy (± 1.8 RH)



Mounting Guide

- 1) Installation height: Preferably install in the middle of house, building or heating area, and to be installed at least 1.5 meter above from the floor.
- 2) Prohibited Location: Window, door, ventilating hole, upper place of heat source, and veranda or beneath the eaves of roof.
- 3) To prevent any deeding errors from convection of warm, air, cable wire tube of transmitter should be shielded and must not be painted.

Wiring Diagram



Shape Dimension

