

# ROOM TEMPERATURE & HUMIDITY TRANSMITTER



## STHR

STHR2215, STHR2216, STHR2217, STHR2218  
STHR2225, STHR2226, STHR2227, STHR2228

### Application

“STHR” Room Temperature Humidity Transmitter is intended for ventilation and air-handling units to detect room temperature and relative humidity.

Especially, this unit is very suitable for using in pulp/textile/food warehouse, greenhouse, computer room, R&D room, indoor swimming pool, hospital, etc.

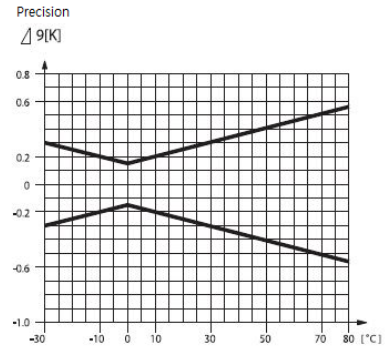
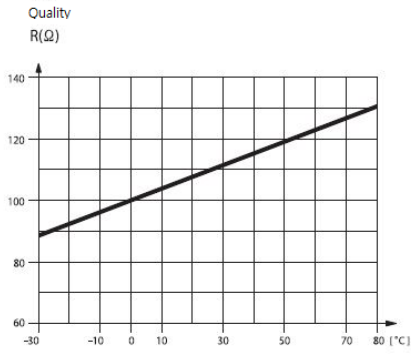
### Technical Data

MODEL	OUTPUT SIGNAL	MEASURING RANGE	ACCURACY(at 23°C)
STHR2215	Pt100Ω / 4~20mA	-10~+70°C / 0~+100%RH	±0.15°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHR2225	Pt1000Ω / 4~20mA	-10~+70°C / 0~+100%RH	±0.3°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHR2216	Pt100Ω / 0 - 10VDC	-10~+70°C / 0~+100%RH	±0.15°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHR2226	Pt1000Ω / 0 - 10VDC	-10~+70°C / 0~+100%RH	±0.3°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHR2217	Pt100Ω / 0 - 5VDC	-10~+70°C / 0~+100%RH	±0.15°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHR2227	Pt1000Ω / 0 - 5VDC	-10~+70°C / 0~+100%RH	±0.3°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHR2218	Pt100Ω / 0 - 1VDC	-10~+70°C / 0~+100%RH	±0.15°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHR2228	Pt1000Ω / 0 - 1VDC	-10~+70°C / 0~+100%RH	±0.3°C(at 0°C) / ±1.8%RH(at 0~80% RH)

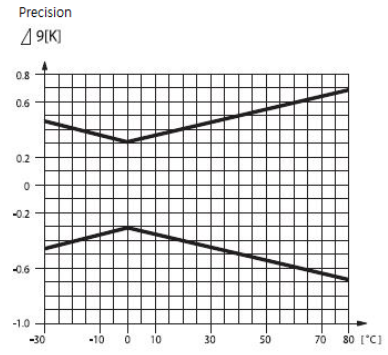
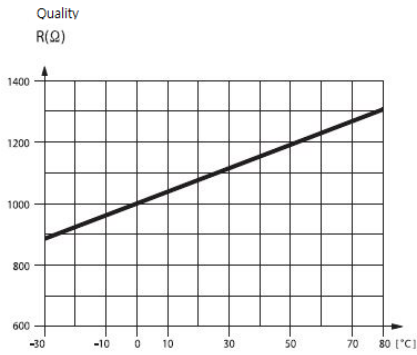
- SUPPLY VOLTAGE : 15~30VDC or 24VAC±20% / (2-wire) 15~30VDC
- POWER CONSUMPTION : DC/8mA, AC/20mA typical
- SENSING RANGE : -10~+70°C / 0~100%RH
- ACCURACY : 23°C at 0~80%RH within ±1.8%RH
- OUTPUT SIGNAL : Pt1000Ω(Pt100Ω) / 4~20mA DC
- SENSING TIME : Temp/5min.Humidity:10sec (at 0.15m/sec velocity)
- AMBIENT TEMPERATURE : 1) On Operation: -10~+70°C  
2) On Transportation & Storage: -10~+65°C
- AMBIENT HUMIDITY : On Operation : below 95%RH
- WIRING : 5 and 6 wires, 1.0m'
- PROTECTION CLASS : IP 30 to EN60529
- HOUSING MATERIAL : PC
- WEIGHT : 80g

Accuracy

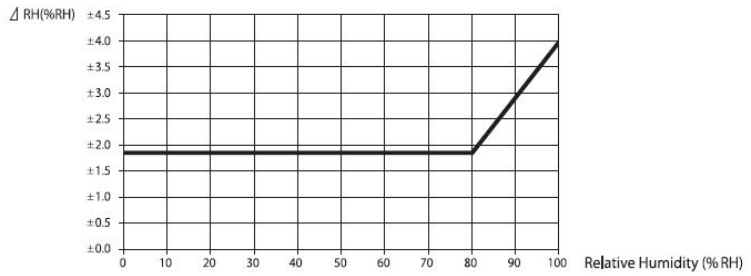
- ▶ Pt100Ω (Class A)



- ▶ Pt1000Ω (Class B)



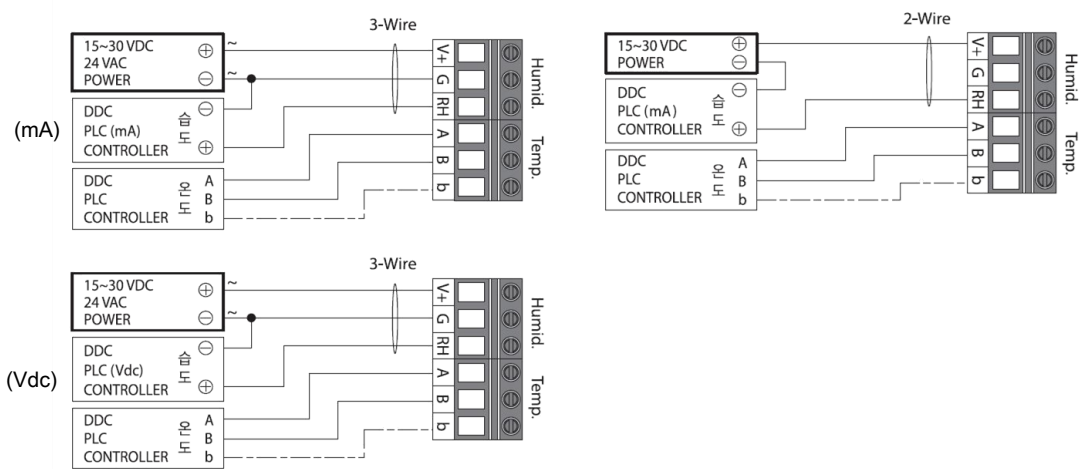
- ▶ Relative Humidity Accuracy (±1.8%RH)



### Mounting Guide

- ▶ Select a location approx 1.5 meter above the floor for sensor with is repress entative of the space to be controlled and where it will be readily affected by changing in the general space temperature & humidity level.
- ▶ The sensor location should also be reasonably clean and free damp and condensation.

### Wiring Diagram



### Shape Dimension

