

OUTSIDE AIR TEMPERATURE & HUMIDITY TRANSMITTER



STHO

STHO2215, STHO2216, STHO2217, STHO2218
STHO2225, STHO2226, STHO2227, STHO2228

Application

“STHO” Outside Temperature Humidity Transmitter is intended for ventilation and air-handling units to detect outside 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.

This unit can be used with all system equipment that can receive output signals 4-20mA/DC of the detector.

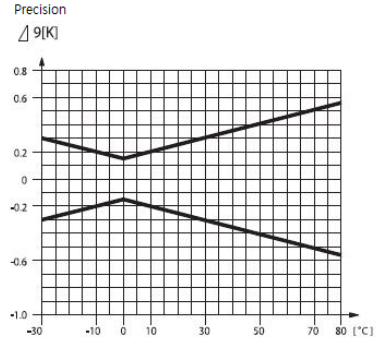
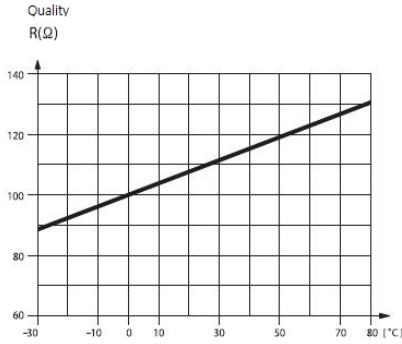
Technical Data

MODEL	OUTPUT SIGNAL	MEASURING RANGE	ACCURACY(at 23°C)
STHO2215	Pt100Ω / 4~20mA	-35~+80°C / 0~+100%RH	±0.15°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHO2225	Pt1000Ω / 4~20mA	-35~+80°C / 0~+100%RH	±0.3°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHO2216	Pt100Ω / 0 - 10VDC	-35~+80°C / 0~+100%RH	±0.15°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHO2226	Pt1000Ω / 0 - 10VDC	-35~+80°C / 0~+100%RH	±0.3°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHO2217	Pt100Ω / 0 - 5VDC	-35~+80°C / 0~+100%RH	±0.15°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHO2227	Pt1000Ω / 0 - 5VDC	-35~+80°C / 0~+100%RH	±0.3°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHO2218	Pt100Ω / 0 - 1VDC	-35~+80°C / 0~+100%RH	±0.15°C(at 0°C) / ±1.8%RH(at 0~80% RH)
STHO2228	Pt1000Ω / 0 - 1VDC	-35~+80°C / 0~+100%RH	±0.3°C(at 0°C) / ±1.8%RH(at 0~80% RH)

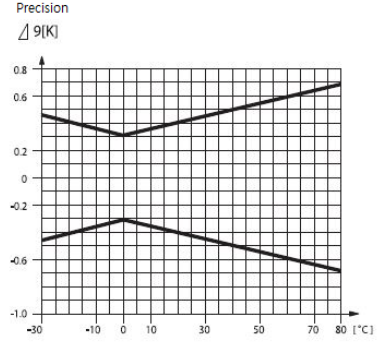
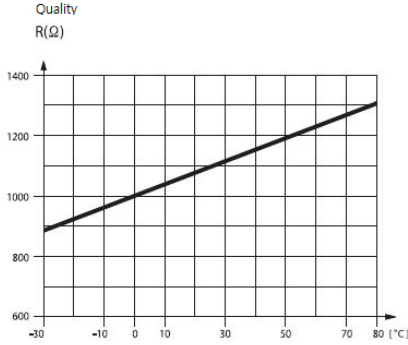
• SUPPLY VOLTAGE	: 15~30VDC or 24VAC±20% / (2-wire) 15~30VDC
• POWER CONSUMPTION	: DC/8mA, AC/20mA typical
• SENSING RANGE	: -35~+80°C / 0~100%RH
• ACCURACY	: 23°C at 0~80%RH within ±1.8%RH
• OUTPUT SIGNAL	: Pt1000Ω(Pt100Ω) / 4~20mA DC
• SENSING TIME	: Temp/3min.Humidity:10sec (at 0.15m/sec velocity)
• AMBIENT TEMPERATURE	: 1) On Operation: -25~+80°C (Probe: -35~+80°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 65 to EN60529
• HOUSING MATERIAL	: PC
• CABLE FITTING	: PF 1/2"
• WEIGHT	: 155g

Accuracy

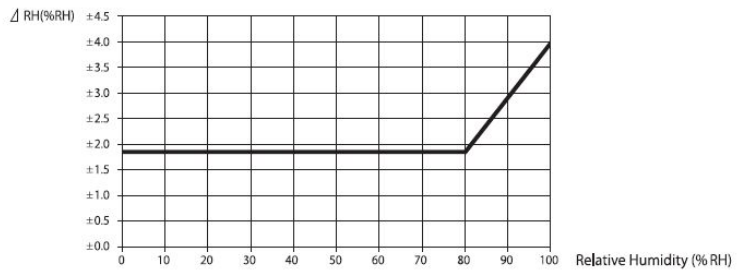
- ▶ Pt100Ω (Class A)



- ▶ Pt1000Ω (Class B)



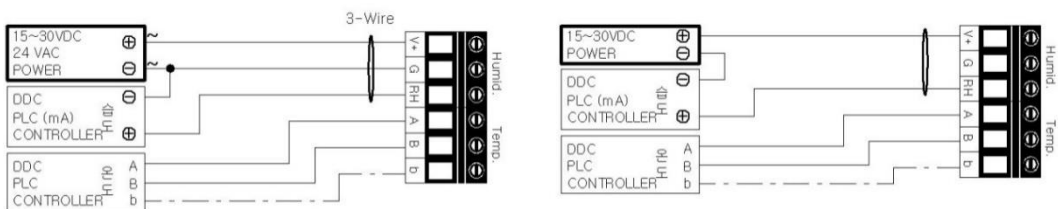
- ▶ Relative Humidity Accuracy (±1.8%RH)



Mounting Guide

- ▶ Select a location approx 1.5 meter above the floor.
- ▶ The sensor location should also be reasonably clean and free damp and condensation
- ▶ The element must not to be touched and should be protected from dust, water, spray and condensation.
- ▶ The sensor element must not to be exposed to organic solvents, sylphid bearing materials.
- ▶ To avoid the conductive current the wires should be separated from power lines.
- ▶ Use the shield line when wiring.

Wiring Diagram



Shape Dimension

