HT series
Humidity & Temperature Sensor

Specifications

Relative Humidity

Measurement Range:	0~100%RH
Output:	4~20mA or 0~10VDC
Accuracy:	±2%RH(25℃, 10~90%RH)
	±3%RH(25℃, 20~80%RH)
Long Term Stability:	<0.5% RH per year

Temperature

Temp Sensor:	NTC20k, Pt100 , Pt1000
Measurement Range:	0~50℃, 0~100℃, -50~50℃
	Range selected by Jumper (0~50℃ as default)
Output:	4~20mA , 0~10VDC or Mod-bus NTC20k, Pt100, Pt1000
Accuracy:	±0.2K at 25℃ for NTC20k sensor
	±0.3K at 25℃ for Pt100, Pt1000 sensor
	±0.3℃ at 25℃ (±2%) ±0.4℃ at 25℃ (±3%) With transmitter
Long Term Stability:	<0.04℃ per year
Power Supply:	15 - 28 VAC/VDC
Current Output Load:	500 Ohm Max
Current consumption:	40mA Max
Working temperature:	
Room type	-40℃ ~ +70℃
Duct type	-40℃ ~ +70℃
	5% ~ 95% RH without condensation
Transport and Storage Temperature :	10℃~+50℃
Housing Material:	Plastic (ABS)
Protection Standard:	
Room type	IP20
Duct type	IP65
Calibration:	Factory calibrated

Application

HT series Humidity and Temperature Transmitters are designed for use with building automation, energy management, and computer / monitoring systems.

These sensors can be used for HVAC system, hospitals, greenhouse, food storage, and incubators.

Features

- 4~20mA, 0~10VDC or Modbus output for both humidity and temperature
- Option for resistance temperature sensor
- LCD display option for both humidity / temperature
- Duct mount and Wall Mount
- 3 temperature ranges are selectable in one model
- High reliability & accuracy
- Wide sensing range
- Rapid response

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Model Selection Table

### Combined Humidity and Temperature sensor or transmitter

HT3	3% RH transmitter					**Base model**
HT2	2% RH transmitter					
HD3	3% RH transmitter w/LCD					
HD2	2% RH transmitter w/LCD					
	C	4~20mA output				**Humidity output**
	V	0~10V output				
	M	RS485 with Modbus (RH+Temp. model only)				
		2	Wall mount			**Housing**
		3	Duct mount 12" probe			
		7	Remote Sensor			
		8	Outside Air			
			0	No temp. output		**Temp. range**
			1	w/temp. Xmitter 0~50C (0~100 by dip sw.)		
			P	w/Pt 100 sensor		
			Q	w/Pt 1000 sensor		
			K	w/NTC 20k sensor		

Temperature sensor or transmitter

T7	Temp. sensor/transmitter(Pt100)			**Base model**
TD	Temp. transmitter w/LCD(only for Transmitter)			
	2	Space mount		**Housing**
	3	Duct mount 12" probe		
	4	Immersion mount 4" probe ("*"length optional)		
	6	Immersion mount 6" probe		
	7	Remote Sensor		
	8	Outside Air		
	9	Duct 20' Ave (4~20mA model only)		
		C1	w/temp. Xmitter, 4~20mA, 0~50C	**Output & range**
		V1	w/temp. Xmitter,0~10V, 0~50C	
		M	RS485 with Modbus	
		P	w/Pt 100 sensor	
		Q	w/Pt 1000 sensor	
		K	w/NTC 20k sensor	

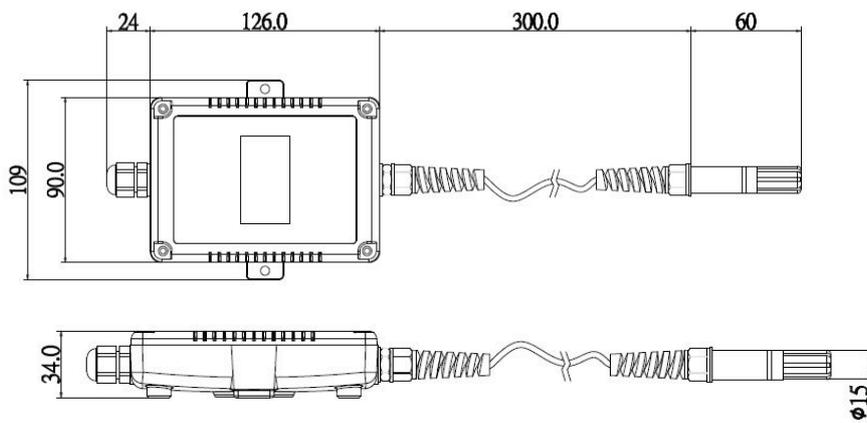# Dimension (Dimension in mm)

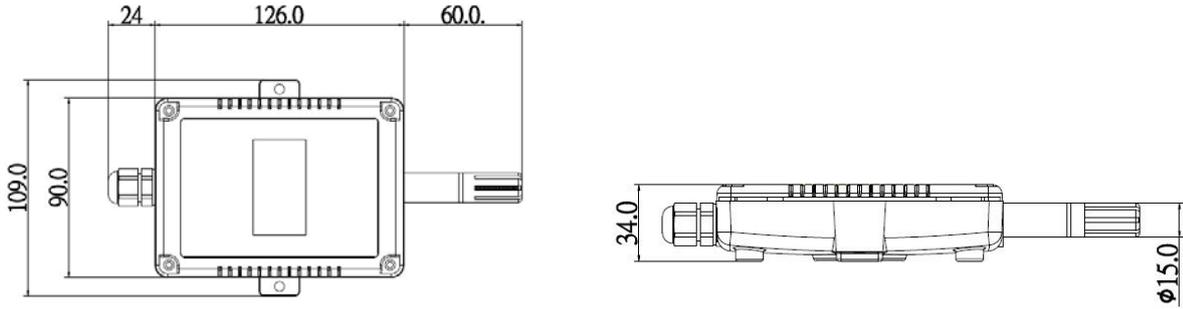### Duct mount Sensor / Transmitter
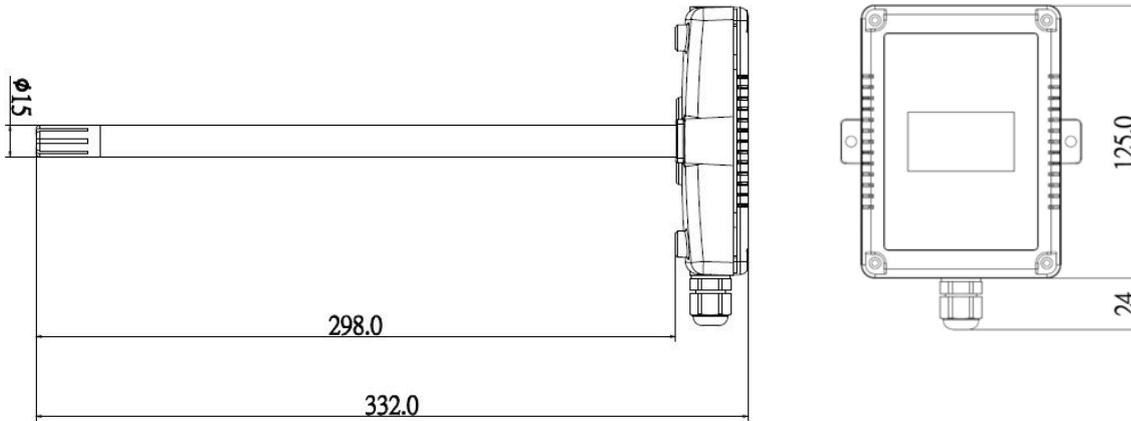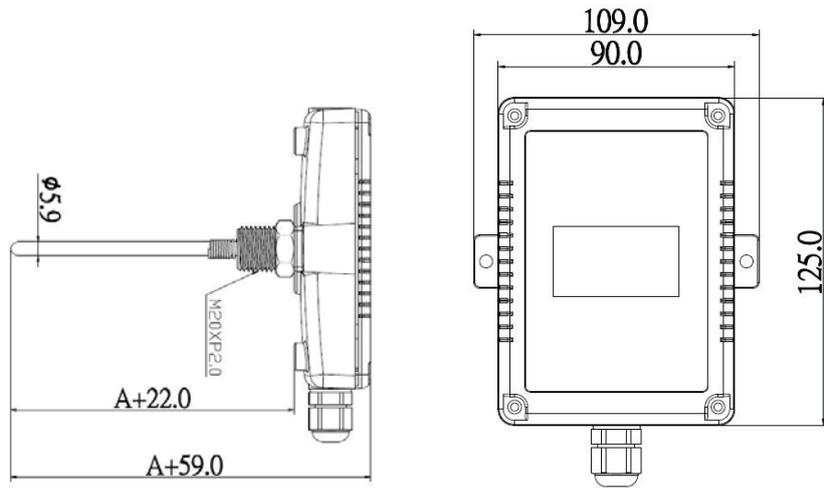

Wall mount Sensor / Transmitter
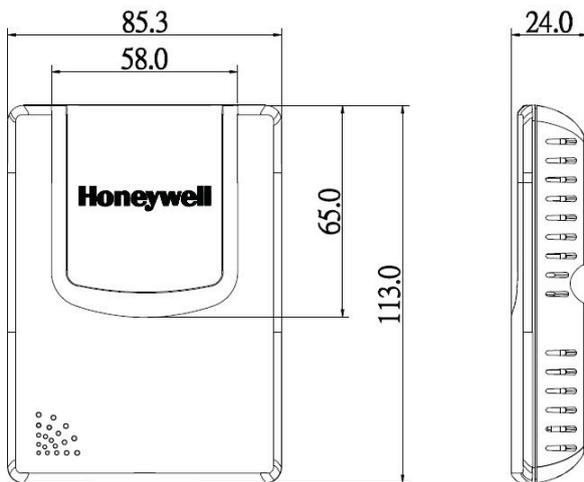
Remote Sensor / Transmitter

Outside Air / Transmitter

Temperature Sensor / Transmitter

Dimension in mm
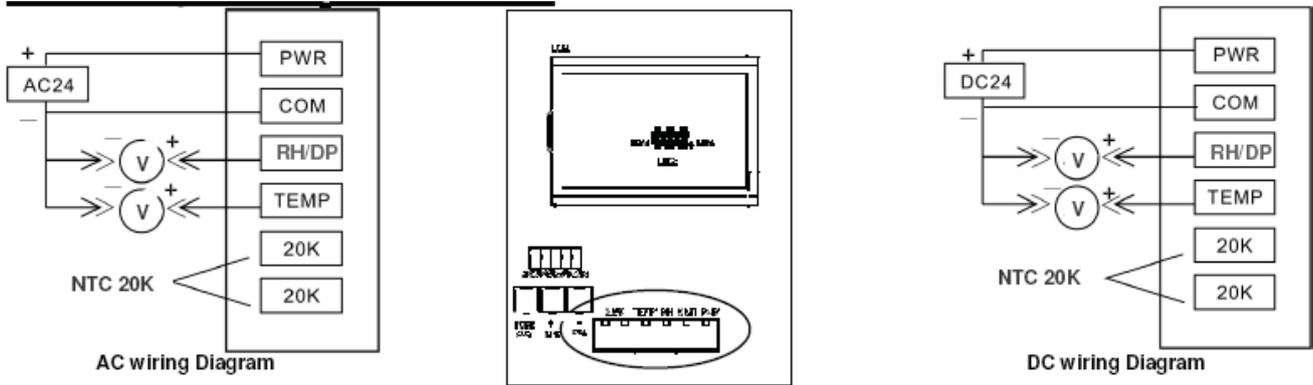
Wiring

Current Output

AC wiring Diagram

DC wiring Diagram

Voltage Output

AC wiring Diagram

DC wiring Diagram
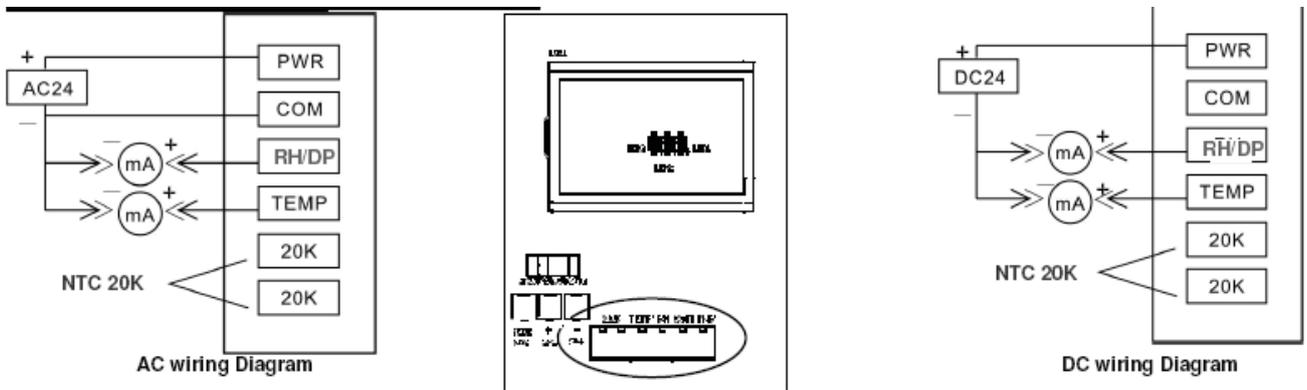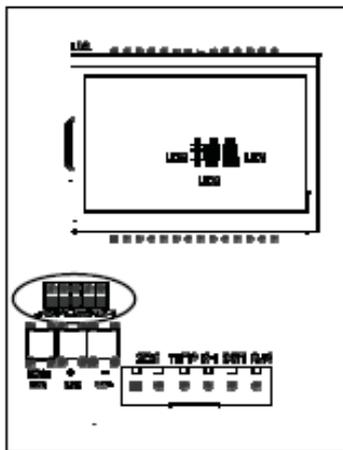
Temperature Range Selection

Jumper setting

1. By selecting JP1 to "0" position, the display shows Celsius mode; by selecting JP1 to "1" position, the display shows Fahrenheit mode.

Select temperature range with jumper according to your application.

温度範圍設定 Temperature range	JP5	JP4	JP3	JP2	JP1
0~50℃	0	1	0	-	-
0~100℃	1	0	0	-	-
-50~50℃	0	0	1	-	-
任意溫度範圍調整 Free range (within specification)	1	1	0	-	-
℃	-	-	-	-	0
℉	-	-	-	-	1

2. By selecting JP2 to "1" position, the unit will commence the mode adjustment. After completion of mode adjustment, the unit will enact the mode setting.
3. JP3, JP4, and JP5 are used to select temperature range.

Honeywell