

NotionControl

THE INTELLIGENT POINT OF BUILDINGS



Relative humidity:

Sensor: Capacitance polymer

Range: 0~100%RH

Output: 4~20mA /0~10VDC/RS485

Accuracy: 2%, 3% and 4.5%RH(25°C,
20~80%RH)

Hysteresis: $\leq \pm 1\%$RH

Response time: <math>< 10</math>s (25°C, in slowly flow air)

Drift: $\leq \pm 0.5\%$RH/year

Temperature

Sensor: Solid state band gap, RTD or thermistors

Range: 0~50°C for transmitter

Output: 4~20mA/0~10V/RS485, RTD or thermistors

Accuracy: $\leq \pm 0.5^\circ\text{C}$@25°C

HTTD, HTTO and HTTS

Humidity & Temperature Transmitter

Applications

HTTD, HTTO and HTTS humidity and temperature transmitters are designed for environment monitoring and controlling in industrial and commercial buildings. These transmitters can be used for:

- Humidity and temperature monitoring of supply, exhaust and return air (HTTD, duct mount)
- Humidity and temperature monitoring in critical environment such as outside air (HTTO, outside mount)
- Other applications of immersion humidity and temperature monitoring (HTTS, separate probe)
- High performance digital sensors and circuits, ensure accurate measurement and temperature compensation
- Good long term stability and reliability
- 100% field changeable sensors, no re-calibration needed
- Fast response
- Multiple output signals selectable
- Industrial design, SS probe and selectable filter
- High protection rate up to IP65

General Specifications

Power: Voltage 15~35VAC/DC, current 7.5-36VDC

Output load: <math>< 500\Omega</math> (current), $> 2\text{K}\Omega$ (voltage)

Temperature limit: -40~85°C, 0~95%RH (Non condensing)

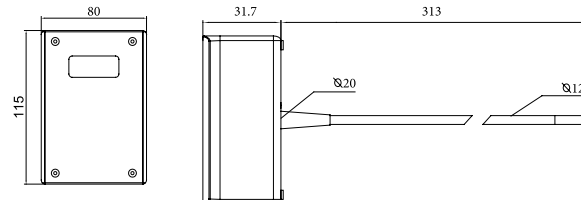
Storage temperature: -40~80°C

Housing: ABS Enclosure, SS probe, SS sintered or mesh filter

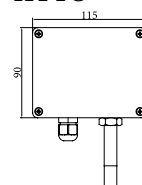
Protection: IP65

Dimension (mm)

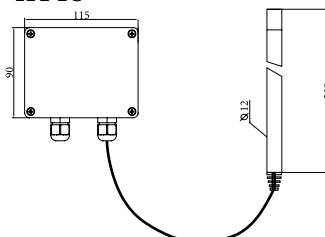
HTTD



HTTO



HTTS





Models

Descriptions	Code				
Duct mount temp./RH transmitter	HTTD				
Outside air temp./RH transmitter	HTTO				
Separate temp./RH transmitter	HTTS				
RH Accuracy					
±2%RH		2			
±3%RH		3			
±4.5%RH		5			
RH Output (0-100%RH)					
0-10VDC			1		
4-20mA			2		
RS485, Modbus			8		
Temperature Output					
No			0		
0-10VDC			1		
4-20mA			2		
PT1000, ±0.2°C@25°C			3		
PT100, ±0.2°C@25°C			4		
NTC20K, ±0.2°C@25°C			5		
Ni 1000, ±0.4°C@25°C			6		
NTC10K-II, ±0.2°C@25°C			7		
RS485, Modbus			8		
NTC10K-III, ±0.2°C@25°C			9		
NTC10K-A, ±0.2°C@25°C			A		
Temperature Range					
No			0		
0-50°C			1		
0-100°C			2		
-40-60°C			3		
Others			7		
Filter					
Stainless steel mesh				0	
Stainless steel sintered				1	

HTTD, HTTO and HTTS Humidity & Temperature Transmitter

