Environment Sensor Probe — (Humidity & Temperature Transmitter)

RhT21



FEATURES

This Probe is meant for industry-proven quality and reliability in measurement of humidity and temperature sensors and constant accuracy over a large measurement range.

The probe uses Capacitive humidity sensor with a bandgap temperature sensor, calibration data memory, D/A converter. The sensor covers a humidity measurement range of 0 to 100 %RH and a temperature measurement range of - 40 °C to 125 °C with a typical accuracy of ±2 %RH and ±0.2°C.





APPLICATION

Can be used in Industrial Automation in Chemical Plants, Pharma, Engineering industries and commercial applications. The sensor shall be compatible to Indicator Controllers, SCADA, Industry 4.0 standards and IoT compatible.



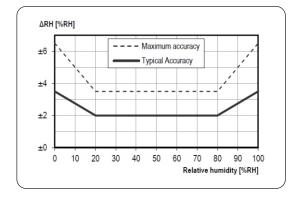
🔼 Dimension Details



TECHNICAL SPECIFICATION

Model	Environmental Sensor		
Operating Range			
Humidity	0% ~ 100% RH		
Temperature	-40°C ~ 125°C RH		
Accuracy	±2% RH, ±0.2%°C		
Response Time	τ63% 8 Sec		
Cable	PTFE / 1 Metre		
Operating Voltage	12 ~ 30VAC		
Output	Humidity: 4~20mA		
	Temperature: 4~20mA		

Parameter	Condition	Value	Unit
Accuracy tolerance	Тур.	±2.0	%RH
	Max.	Below Graph	%RH
Repeatability	-	0.1	%RH
Resolution	-	0.01	%RH
Hysteresis	-	±1	%RH
Specified range	extended5	0 to 100	%RH
Response time	τ 63%	8	S
Long-term drift	Тур.	<0.25	%RH/y





Probe & Electronics Current Output - RH & Temperature

Duct Mount Current Output - RH & Temperature Specifications are subject to change without Prior notice

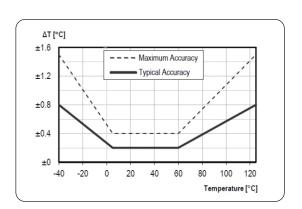


Current Output - RH & Temperature





Parameter	Condition	Value	Unit
Accuracy tolerance 1	Тур.	±0.2	°C
	Max.	Below Graph	°C
Repeatability ²	-	0.1	°C
Resolution ³	-	0.01	°C
Specified range 4	-	-40 to +125	°C
Response time ⁸	τ 63%	<5 to 30	S
Long-term drift 9	Тур.	<0.02	°C/y





Display Logger

Relay Output - Threshold **RH & Temperature**



Mote Log / Wifi - RH & Temperature

