

Environment Sensor Probe – (Humidity & Temperature Transmitter)

RhT11

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.



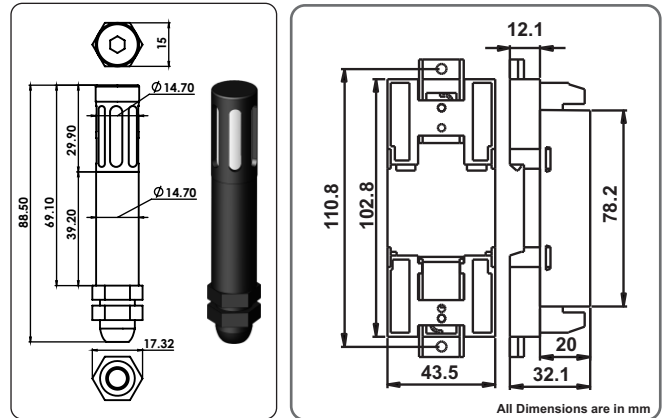
APPLICATION

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.

TECHNICAL SPECIFICATION

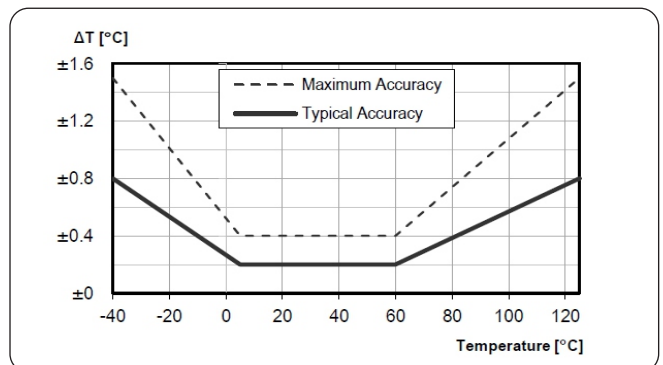
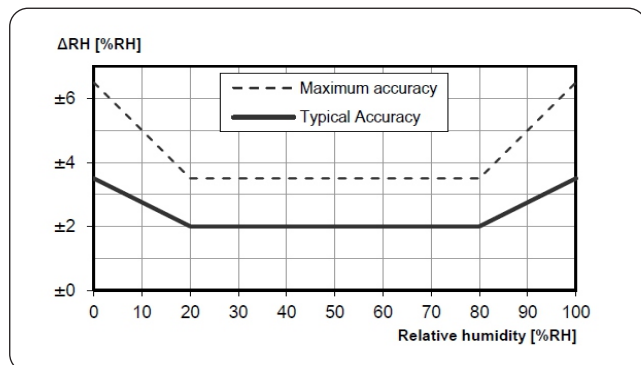
Model	Environmental Sensor
Humidity	0% ~ 100% RH
Temperature	-40°C ~ 125°C
Accuracy	$\pm 2\%$ RH, $\pm 0.2\%$ °C
Response Time	$\tau 63\%$ 8 Sec
Cable	PTFE / 1 Metre
Operating Voltage	12 ~ 30VDC
Output	Humidity: 4~20mA Temperature: 4~20mA
Housing	Aluminium Grade 6xxx series
Filter	PTFE Sintered Porous Filter

DIMENSION DETAILS



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

Parameter	Condition	Value	Unit
Accuracy tolerance	Typ.	± 0.2	°C
	Max.	Below Graph	°C
Repeatability	-	0.1	°C
Resolution	-	0.01	°C
Specified range	-	-40 to +125	°C
Response time	$\tau 63\%$	<5 to 30	s
Long-term drift	Typ.	<0.02	°C/y



OTHER PRODUCTS



Display Logger
Relay Output - Threshold
RH & Temperature



Mote
Log / Wifi - RH &
Temperature



Connect



Monitor



Control



Compatible

Specifications are subject to change without Prior notice

