



# Temperature & Humidity Monitoring Sensor

**Revision Date:** 8/26/2025

**Use Status:** In Use

**Description:**

Humidity and Temperature wall mount Transmitter. Requires 24 volt dc power for wired or wireless applications. Maximum of eight per remote panel

Rees Info	
<b>General Info</b>	
Centron Input Number	2.0
<b>Centron 1</b>	
TestWireless Reads	4-20 mA
Workstation Reads	Linear Transducer
Is it 4-20mA?	Yes
M Value	31.38
B Value	-71.25
Units	C
<b>Centron 2</b>	
TestWireless Reads	4-20 mA
Workstation Reads	Linear Transducer
Is it 4-20mA?	Yes
M Value	25.1004
B Value	-25.0
Units	% RH

Power	
Supply Voltage (VDC) Min	10.0
Supply Voltage (VDC) Max	28.0
Supply Current (mA) Min	40.0
Comes with Transformer	False

Physicalities	
Height (inches)	9.96
Width (inches)	5.08
Depth (inches)	1.77
Weight (lbs)	0.551
Color	Silver, Black
Material	ABS, Aluminum
IP Rating	65
Mounting Information	Wall
Is probe removable?	True
Probe Diameter (inches)	0.6
Probe Length (inches)	4.25

Sensor Info	
<b>General Info</b>	
Operating Temperature Min (C)	-40.0
Operating Temperature Max (C)	60.0
Operating Humidity Min	0.0
Operating Humidity Max	100.0
Storage Temperature Min (C)	-50.0
Storage Temperature Max (C)	60.0
Operating Temperature Min of Transmitter (C)	-40.0
Operating Temperature Max of Transmitter (C)	60.0
Operating Temperature Units/Information	C
Operating Humidity Min of Transmitter	0.0
Operating Humidity Max of Transmitter	100.0
Operating Humidity Units/Information	%rH
Sensor Technology	Pt100 RTD IEC 751 1/3 class B, ROTRONIC Hygromer IN1
Response Time	15s
Rees Calibrated	False
Factory Calibrated	False
Site Calibrated	False
Types of Measurands	Temperature, Humidity
<b>Measurands</b>	
<b>Temperature</b>	
Measurement Min	-40.0
Measurement Max	85.0
Measurement Units/Information	C
Accuracy	At 23 °C: ±0.1 °C ±0.3 °C for models HC2-C04 and HC2-C05
Output	4-20 mA
Repeatability	0.05 C
Long term stability	< 0.1 C / year

Sensor Time Constant	Typical 4 sec, 63% of a step change (1m/sec air flow at sensor)
<b>Humidity</b>	
Measurement Min	0.0
Measurement Max	100.0
Measurement Units/Information	% RH
Accuracy	At 23 °C: ±0.8 %RH (w. standard adjustment profile) ±1.0 %RH for models HC2-C04 and HC2-C05
Output	4-20 mA
Repeatability	0.3 %RH
Long term stability	< 1 %RH / year
Sensor Time Constant	Typical 10 sec, 63% of a 35 to 80 %RH step change (1m/sec air flow at sensor)