Room Type Humidity Sensor

RMT.HT.1021 Room Type Humidity and Temperature Sensors are used in many applications such as air handling units where humidity and temperature are monitored or controlled, hygienic air conditioning, pool dehumidification unit, greenhouses, storage areas, laboratories and data centers.

Specifications

Measurement of relative or absolute humidity and temperature in the specified airspace.
Ability to use it as a control sensor.

Order code:

RMT.HT.1021 (Room Type Humidity Sensor)

Technical Property

Electrical Data	Electrical Connection	Terminal Block 1,5 mm^2
	Supply	24 VAC/ VDC
	Frequency	50/60 Hz
	Power Consumption	Up to 2 VA
Functions	Output Signal	0-10V , 4-20 mA
	Sensor Technology	Stainless steel wire mesh screen polymer having a capacitive sensor
	Application	Air
Measurement Data	Measurement Parameter	Humidity, Absolute Humidity, Temperature
	Range Of Temperature Measurement	0 … 50°C [-5 … 120°F]
	Range Of Humidity Measurement	0 … %100 relative humidity, non-condensing
	Accuracy	± 2% / 10 … 90% r.h. @ 21 °C
Materials	Body	ABS
	Color	Milk White
Security Data	Ambient Humidity	0 .. 100 % r. h. (Non condensing)
	Ambient Temperature	-35…50°C [-30…120°F], (Without icing and condensation)
	Degree of Protection	IP 20
	Certification EN	EN 60529

General Warnings

Before starting the installation of the device, carefully read the user manual and the warnings below.
The responsibility belongs to the user in case of damage, loss and accidents caused by not following the warnings in the user manual. Do not modify or repair the device.
The interventions on the device may cause the device to malfunction and damage the device and the system.
In these cases, the device is out of warranty for malfunctions.

Notes

Humidity is expressed in three different ways.

1. Absolute Humidity: It is the amount of water vapor in 1 m3 of air. It is expressed in grams. Absolute humidity is inversely proportional to temperature and correct altitude.
2. Maximum Humidity: It is the maximum amount of moisture that 1 m3 of air can carry at a certain temperature. The maximum moisture content is inversely proportional to the temperature and the correct elevation.
3. Relative Humidity: It is the ratio of the amount of water vapor present in the air at a certain temperature to the maximum amount of water vapor that the air can carry at that temperature. It is expressed as a percentage.

Dimensions

Weight 140g

Package Included

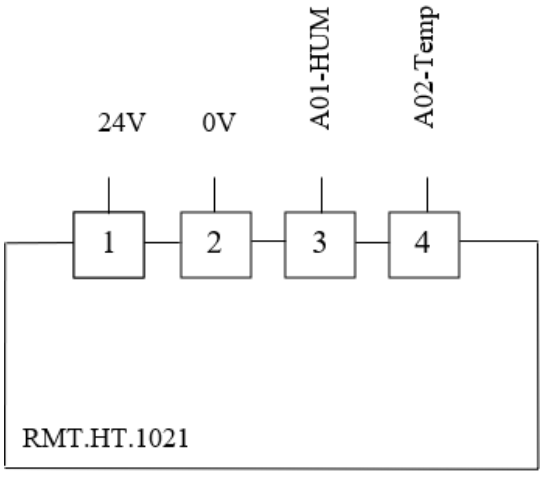
Box of Shape	Wall mount with screws
Dimensions	L137xW58xY35 mm

Self-extinguishing plastics are used in the production of box materials.
*** The device should not be wiped with solvent (thinner, benzine, acid, etc.) or abrasive cleaning materials.**

Installation Information

Wall Mount

Wiring Diagram



Supply: 24 It works with VAC VDC supply.

1: 24 VAC/VDC
2: 0 VAC/GND

Output: Voltage output between 0-10V or 4-20 mA.

3: 0-10V voltage output or 4-20 mA at 0… 100% r.h.
4: 0-10V voltage output or 4-20 Ma at 0… 50 ° C