

EK-RTH Temperature & Humidity Sensor



Features

- Long Term Stability
- Fast Response
- Modbus Interface
- Wall Mounted

The EK-RTH is a temperature and humidity sensor designed for use in indoor applications to monitor room temperature and humidity. This model can be wall or ceiling mounted depending on requirement.

Fast Measurement

Fast temperature and humidity measurement in a fast changing environment are critical for data centers.

EK-RTH uses the latest in temperature and humidity ICs. Its new membrane filter speeds up the RH measurement.

DCIM & BAS Interface

With standard Modbus RTU protocol, EK-RTH supports most leading DCIM and BAS applications. A wide range of baud rates and addresses are provided. The device may be installed on the same communication port with other Modbus devices.

Specifications

Humidity

Measurement Range	0 to 99.9%RH
Accuracy	
10 to 30%	+/- 4%
30 to 70%	+/- 3%
70 to 90%	+/- 4%
Above 90%, Below 10%	+/- 10%

Temperature

Measurement Range	-19.9 to 60°C
Accuracy	
-19.9 to 5°C	+/- 1°C
5 to 40°C	+/- 0.5°C
40 to 60°C	+/- 1°C

Communications

Protocol	Modbus RTU
Type	RS485
Baud rate (User Selectable)	1200, 2400, 9600(default), 38400bps
Start bit	1 bit
Stop bit	1 bit
Parity	None
Addresses	1 to 32

General

Operating Temperature	-20 to 60°C
Storage Temperature	-20 to 60°C
Material	ABS plastic
Power Supply Voltage	10 to 28VDC
Supply Current	3 to 5mA
Dimensions	85 x 85 x 30mm