

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 |