



RK330-01 Atmospheric Temperature, Humidity & Pressure Sensor



Overview

RK330-01 Atmospheric Temperature, Humidity & Pressure Sensor designed for professional measurement of air temperature, relative humidity & barometric pressure. Sensors are built-in the water-proof and UV resistant shelter. It is widely used in agriculture, forestry, meteorology as well as a climate chamber, warehousing and other environments. This model also can be equipped with radiation shield (RK95-01) to protect the sensors from solar radiation and rain.

Features

- High sensitivity
- Fast response time
- Long service life
- Low consumption
- Good stability of output
- Strong environmental adaptability
- Integrated temperature humidity air pressure at the same time

Applications

- Environmental monitoring
- Solar farm
- Livestock farm
- Storage room
- Forestry
- Greenhouse
- Agriculture

Technical Parameter

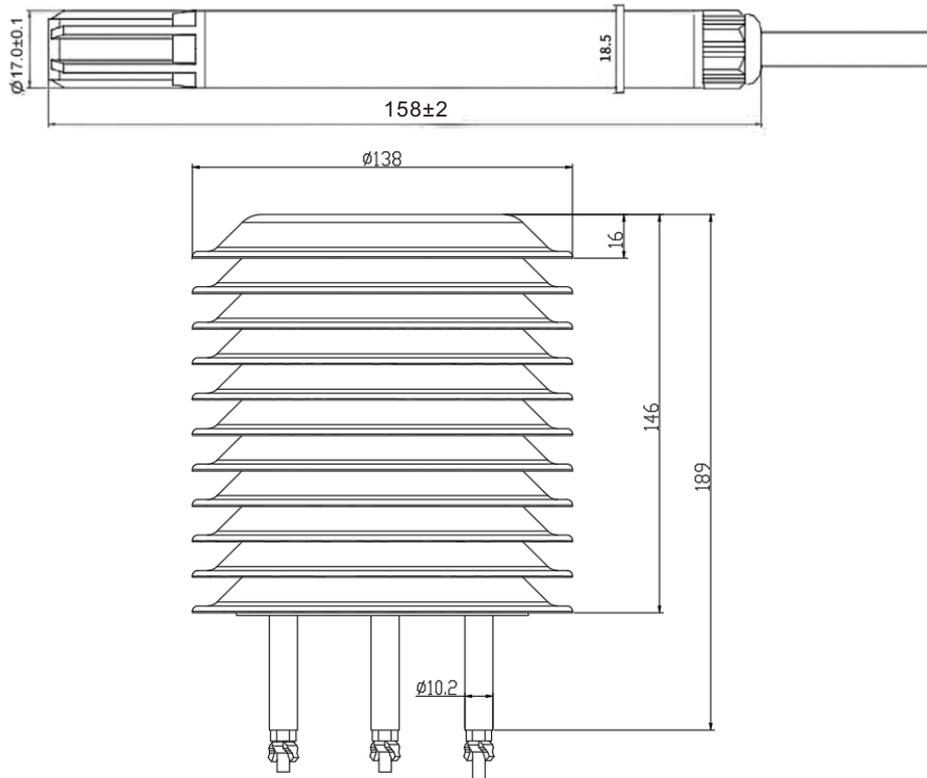
| Item | Temperature | Humidity | Pressure |
|--|--|----------|------------------------|
| Range | -40-60°C | 0-100%RH | 30-110kPa(300-1100hPa) |
| Resolution | 0.1°C | 0.1%RH | 0.1hPa |
| Accuracy(typical) | ±0.5°C | ±3%RH | ±1hPa |
| Accuracy(high-precision) only for digital output | ±0.2°C | ±2% RH | ±1hPa |
| Supply | 5VDC, 12-24VDC | | |
| Output signal | 4-20mA,0-5V,0-10V,RS485(MODBUS),SDI-12,IIC | | |
| Current consumption | <5mA | | |
| Stability | Temperature:± 0.1°C(2years); Humidity:±2% RH(2years) | | |
| Operating temperature | -40°C-+80°C | | |
| Ingress protection | IP65 | | |
| Storage | 10-60°C@20%-90%RH | | |
| Weight(unpacked) | 120g | | |
| Probe material | ABS | | |
| Radiation shield(optional) | RK95-01, 11 plates | | |



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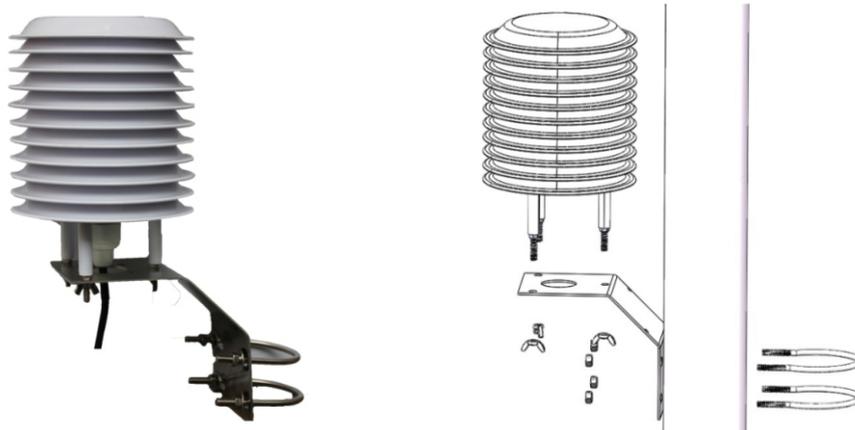
Dimensions

Unit:mm



Mounting

1. Install the product in stable environment area, avoiding direct sunlight, and keeping it from windows air-conditioning, heating and other equipment. Otherwise it will cause measurement inaccuracies, the installation height should be 1.5m above the ground.
2. Fixing rail is optional.





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Parameter Selection Table

| Remark | Series | Type | Parameter | Output | Cable Length | |
|--------|--------|------|-----------|--------|--------------|---------------------------------|
| RK | | | | | | |
| | 330 | | | | | |
| | | 01 | | | | |
| | | | A | | | Temperature & Humidity |
| | | | B | | | Temperature, Humidity, Pressure |
| | | | C | | | Temperature |
| | | | D | | | Humidity |
| | | | | A | | 4-20mA |
| | | | | B | | 0-5V |
| | | | | C | | 0-10V |
| | | | | D | | RS485 |
| | | | | E | | IIC |
| | | | | F | | SDI-12 |
| | | | | | 3000 | Units:mm (typ) |
| | | | | | ... | Units:mm |

Example: RK330-01AA3000 Parameter: temperature & humidity Output: 4-20mA, cable Length:3m.

| Revision time | Reviser | Current Version | Remarks |
|---------------|---------|-----------------|---------|
| 20250403 | Lee | V5.0 | |