

RK330-01 Atmospheric Temperature, Humidity & Pressure Sensor is a professional measurement of air temperature, relative humidity & barometric pressure. Sensors are built-in the water-proof and anti-UV shelter. It is widely used in agriculture, forestry, meteorology as well as a climate chamber, warehousing and other places. 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

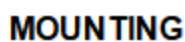
- Environmental monitoring
- Solar farm
- Livestock farm
- Storage room
- Forestry
- Greenhouse
- Agriculture



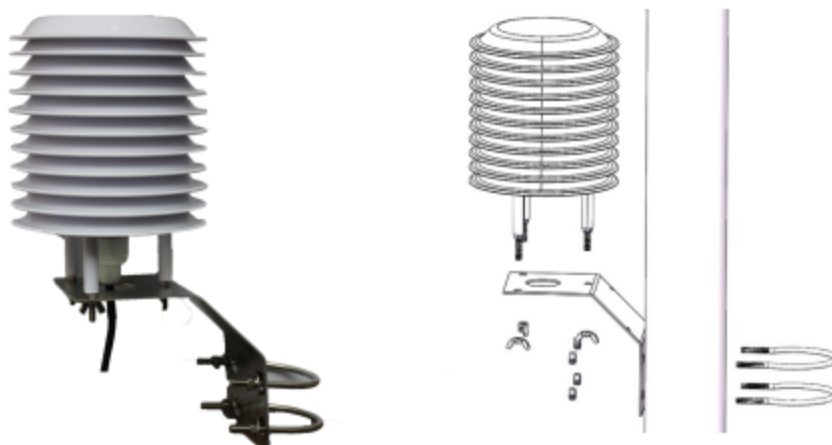
TECHNICAL SPECIFICATION

Item	Technical Specification		
	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		

Unit: m r



1. Install the product in stable environment area, avoid direct sunlight, away 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.



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	