



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

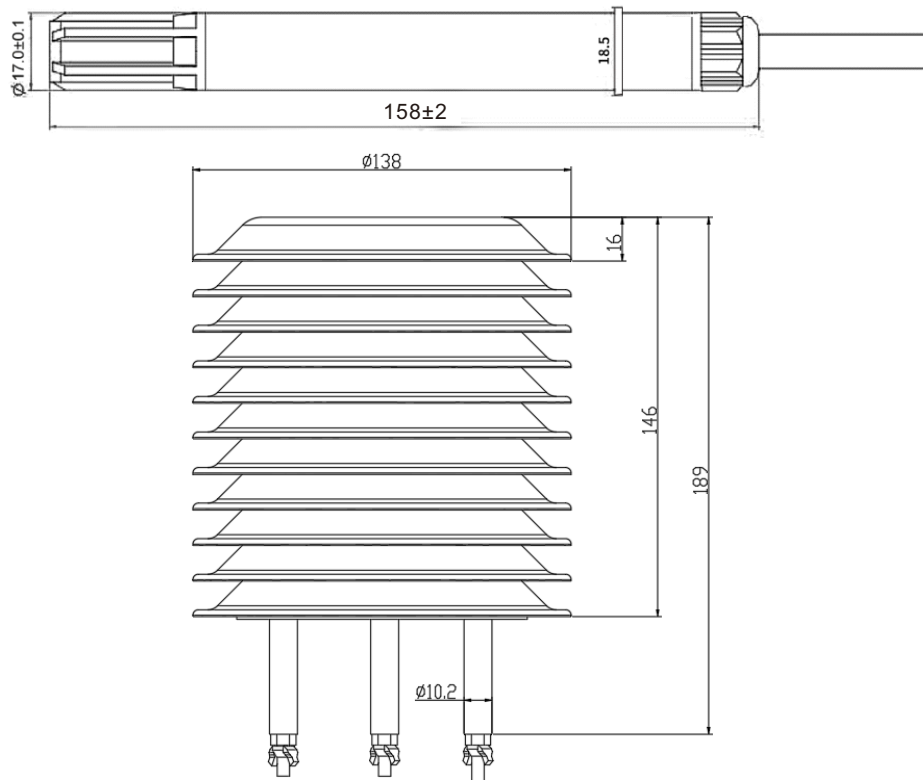
Item	Temperature	Humidity	Pressure
Range	-40-60℃	0-100%RH	30-110kPa(300-1100hPa)
Resolution	0.1℃	0.1%RH	0.1hPa
Accuracy(typical)	±0.5℃	±3%RH	±1hPa
Accuracy(high-precision) only for digital output	±0.2℃	±2% RH	±1hPa
Supply	5VDC, 12-24VDC		
Output signal	4-20mA,0-5V,0-10V,RS485(MODBUS),SDI-12,IIC		
Current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



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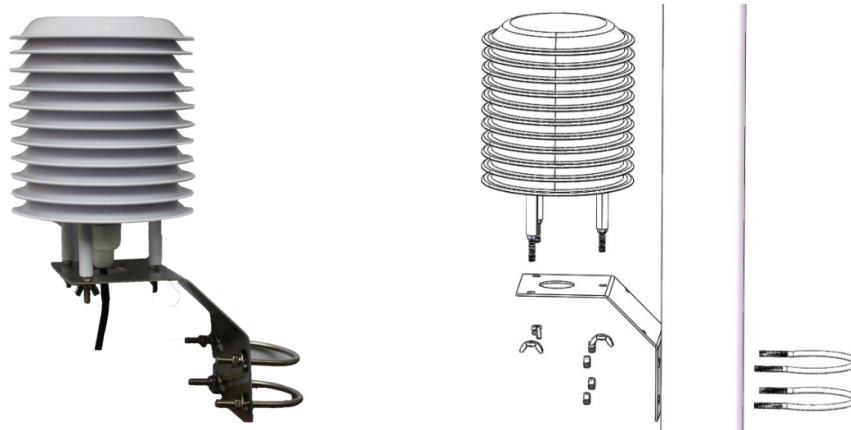
Dimensions

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	