



RK330-21 Atmospheric Temperature, Humidity & Pressure Sensor



Overview

RK330-21 Atmospheric Temperature, Humidity & Pressure Sensor designed for professional measurement of air temperature, relative humidity & barometric pressure. Sensors are built-in the waterproof 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 (RK95-02B) to protect the sensors from solar radiation and rain.

RK330-21 can continuously collect information on atmospheric temperature, humidity, and pressure for analysis. Based on the current meteorological conditions, it can predict the potential impact of upcoming storms on roads and traffic conditions, while ensuring safety and maximizing the efficiency of highway maintenance and aviation maintenance.

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
- Support user calibration

Applications

- Environmental monitoring
- Solar farm
- Airport
- Storage room
- Forestry
- Traffic meteorology
- Meteorological research

Technical Parameter

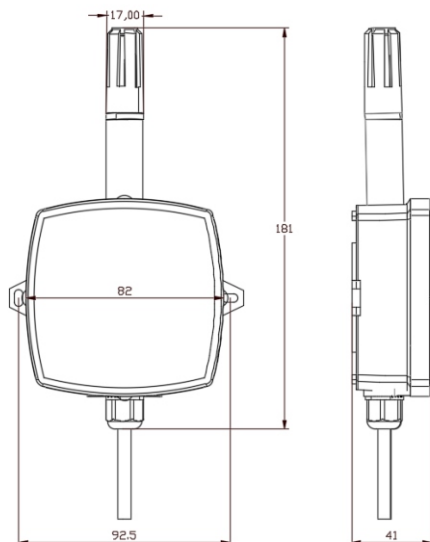
Item	Technical Specification		
	Temperature	Humidity	Pressure
Range	-40-80°C	0-100%RH	30-110kPa(300-1100hPa)
Resolution	0.1°C	0.1%RH	0.1hPa
Accuracy	±0.2°C	±2% RH	±0.5hPa
Stability	± 0.1°C/2years	±2%RH/2years	±0.16hPa/year
Supply	12-24VDC		
Output signal	0-2.5V,RS485(MODBUS),SDI-12		
Current consumption	<10mA(without display)		
Operating temperature	-40°C-+80°C		
Ingress protection	IP65(with radiation shield)		
Storage	10-60°C@20%-90%RH		
Display (optional)	LCD		
Probe material	ABS		
Radiation shield(optional)	RK95-02B		



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Dimension

Unit:mm



Mounting

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.
2. If you use indoor, you should use two screws directly fix on the wall.

Parameter Selection Table

Remark	Series	Type	Parameter	Output	Display	Cable Length	
RK							
	330						
		21					
			A				Temperature & Humidity
			B				Temperature,Humidity,Pressure
				A			RS485
				B			SDI-12
				C			0-2.5V
				X			Other
					A		With display
					B		Without display
						3000	Units:mm (typ)
						...	Units:mm

Example: RK330-21AAA3000 Parameter: temperature & humidity, Output:RS485,With display,cable Length:3m.

Revision time	Reviser	Current Version	Remarks
20250902	Echo	V5.0	