



RK220-01T Paste Type Temperature Sensor



Overview

RK220-01T Paste Type Temperature Sensor adopts a high-precision resistance (PT100 Class A, complies with IEC 751) as the sensing component. It features high accuracy and excellent stability. The signal conversion module can convert temperature to corresponding voltage, current or RS485 optionally. RK220-01 paste type temperature sensor is compact, easy-to-install, with good linearity, strong load capacity, long transmission distance and superior anti-interference performance. RK220-01 complies with the regulations of IEC 61724 on PV module temperature sensors.

Features

304SS probe, strong corrosion resistant ability
High accuracy
Wide range, good stability
With high temperature resistant adhesive, convenient installation
Easy Installation

Applications

Solar and wind power generation
Weather monitoring stations
Contact temperature measurement
Ports
Mobile weather monitoring vehicles

Technical Parameter

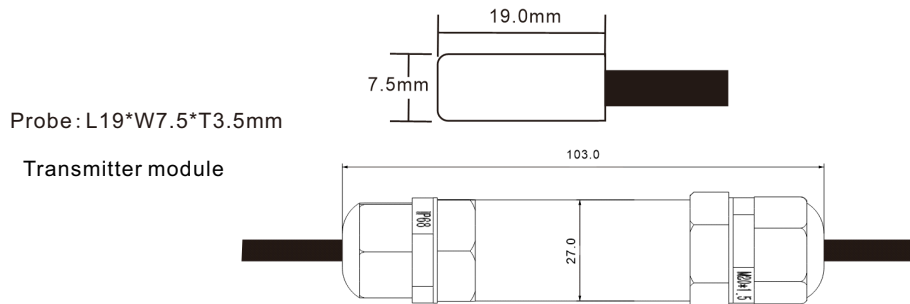
Item		Technical Specification		
Range		-50-+100°C		
Resolution	0.1°C			/
Accuracy	±0.3°C			±0.3°C
Output	4-20mA 0-5V RS485			PT100/PT1000 3-wires
Load capacity	≤250Ω ≥1K	/		/
Power consumption	≤8mA, 0.1W(12V)			
Ingress protection	IP67			
Operating temperature	Probe: -50°C-+120°C Conversion module:-40°C-+85°C			
Sensor Resistance	PT100 Class A			
Probe	304SS			
Weight(unpacked)	Probe: 85g			
Transmitter module dimension	Φ27*103mm			
Storage condition	10°C-60°C@20%-90%RH			
Thermal grease	Attached			
Aluminum tape	Attached			



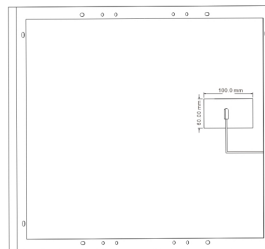
RK220-01T

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Dimensions



Mounting



Installation on the back of the photovoltaic panel

Aluminum Tape



Thermal grease

Ensure full contact between the sensor and the photovoltaic panel, with good thermal conductivity

Parameter Selection Table

Remark	Series	Type	Supply	Output	Range	Cable Length	
RK	220	01	A				5V
			B				/
			C				12-24V
			X				Other
				A			4-20mA
				B			0-5V
				C			Pt100
				D			Pt1000
				E			RS485
				X			Other
					A		-50-+100℃
					B		-20-+50℃
					X		Other
						5000	Units:mm(typ)
						...	Units:mm

Example: RK220-01CAA5000 Supply:12-24V,Output:4-20mA,Range: -50-+100℃,Cable Length:5m.

Revision time	Reviser	Current Version	Remarks
20250402	Lee	V5.0	