

RK300-04 Leaf Wetness Sensor is an important tool for observing and studying leaf wetness, preventing pests and diseases, and spraying sprinkler control. The accurate measurement of the moisture content of the leaf surface can be used to monitor the trace moisture or ice crystal residue. The shape of the sensor is simulated by the blade, which can simulate the characteristics of the leaf surface, so that it can reflect the situation of the leaf surface more accurately. By measuring the variation of the dielectric constant of the upper surface of the blade, the mist, water vapor and ice can be measured.

FEATURES

Reflect the water content of leaf

- Fog, freezing, condensation and rainfall can be detected
- Good waterproof sealing performance
- High precision, fast response, reliable performance.
- Multiple signal output options



APPLICATIONS

- Research on the growth and development of crops
- Prevention of pests and diseases and early warning
- Foliar fertilization, spraying and irrigation control

TECHNICAL SPECIFICATION

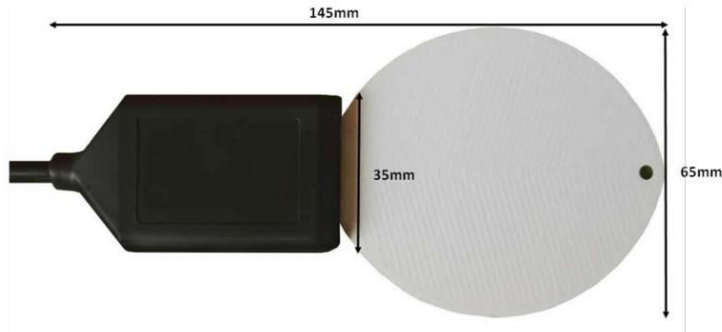
Item	Technical Specification
Range ^①	Wetness: 0-100% Temperature: -40+80°C
Accuracy ^①	Wetness: ±3%(0-50%), ±5%(>50%) Temperature: ±0.5°C
Repeatability	<±3%FS
Temperature Drift	≤0.2%FS/°C
Supply	5VDC, 12-24VDC
Output	4-20mA, 0-5V, 0-2V, RS485
IP Rating	IP65
Operating Temperature	-40°C - +80°C
Dimension	65*13*145mm
Storage	-40-70°C @ 20%-90%RH

①Only when the output is RS485, measuring parameter include wetness and temperature.

MOUNTING

When installing the sensor to simulate the face of the grid part of the face, roughly the same angle with the surrounding surface and the ground. Such as foliar fertilization spray testing, can be installed in the plant height of different height, to ensure that the plant close to the ground effect of foliar fertilization.

DIMENSION



PARAMETER SELECTION TABLE

Remark	Series	Type	Supply	Output	Cable Length	
RK						
	300					
		04				
			A			5VDC
			B			12-24VDC
			X			Other
				A		4-20mA
				B		0-5V
				C		0-2V
				D		RS485
				X		Other
					1500	Units:mm (typ)
					3000	Units:mm
					...	Units:mm

Example: RK300-04BA1500 Supply: 12-24VDC, Output:4-20mA, Cable Length:1.5m.



Complies with applicable CE directives.

Specifications subject to change without notice. Version 3.0

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