RK500-05 Soil Water Potential Sensor

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Soil water potential is the amount of energy required to extract a unit of water from the soil at the same temperature in kilopascals (kPa). When the soil moisture is saturated, the water potential is zero. The water content is lower than the saturation state, and the water potential is negative. The more arid the soil is, the greater the negative value will be. In the study of plant water demand, soil water content cannot reflect the availability of plants, and soil water potential is the only index to judge the degree of drought.

FEATURES

- Real-time measurement
- Good corrosion resistance,
- High accuracy
- Good linearity
- Suitable for high salinity

APPLICATIONS

- Environmental monitoring
- Weather station
- Aquaculture
- Ground detection
- Water conservancy
- Agriculture

TECHNICAL SPECIFICATION

Item	Technical Specification	
Range	-10~-500kPa	
Supply	2.5VDC	5-30VDC
Output Signal	500~1000 mV	RS485
Accuracy	±25%(-5~-100kPa),±35%(-100~-300kPa),±50%(-300~-500kPa)	
Resolution	0.1kPa	
Element	Ceramic	
Response Time	10ms	
Operating Temperature	-40℃~+70℃	
Dimension	90.5 × 30.7 × 11mm	
Storage	10-60℃@20%-90%RH	
Weight(unpacked)	155g	

CE Complies with applicable CE directives.

Specifications subject to change without notice. Version 3.0

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