

RK520-02 Soil Moisture, Temperature & EC Sensor



RK520-02 Soil Moisture, Temperature & EC Sensor is integrated the moisture, temperature & EC measurement. The stainless steel probe is inserted into soil surface or soil profile to test quickly. The product with temperature compensation to ensure the accuracy of measurement. The probe can be permanently embedded underground and be connected to a data logger for unlimited testing.

FEATURES

- High precision
- Fast response
- Suitable for saline-alkali soil
- Can work long-term immersion
- Soil properties affect little
- Directly buried in soil
- Widely used



APPLICATIONS

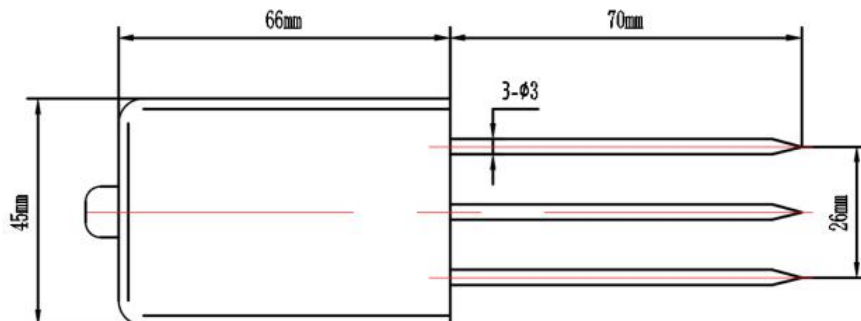
- Agriculture irrigation
- Greenhouse
- Grass farm
- Environment monitoring
- Water conservation
- Soil testing

TECHNICAL SPECIFICATION

Item	Technical Specification		
	Moisture	Temperature	EC
Range	0-100% (m ³ /m ³)	-30℃-+70℃	0-10mS/cm(0-2V), 0-20mS/cm(RS485)
Accuracy	±3%	±0.3℃	±2%FS
Output Signal	RS485, 0-2V		
Response Time	<1s		
Supply	5VDC, 12-24VDC		
Effective measurement area	With the center of the probe diameter is 70mm, high 70mm cylinder		
Housing	ABS		
Dimensions	71*45*16mm(probe:3* Ø3*70mm)		
Operating Temperature	-40℃-+80℃		
Ingress Protection	IP68		
Storage	10-60℃@20%-90%RH		
Probe material	316L stainless steel		

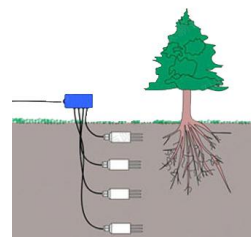
DIMENSIONS

Unit:mm



MOUNTING

1. Testing medium should be with uniform intensity.
2. If surface soil water content measurement, the sensor should be insert into soil vertically. Do not shake the sensor when inserted, otherwise the probe will be blended;
3. If multi-layer soil water content measurement, the sensor should be buried in the soil and parallel to the ground. Make sure the probe not be blended;
4. When removing sensors from the soil, please hold the sensor housing shell and do not forcibly pull on the cable. Soil on probes should be brushed tightly.
5. Please keep the sensor in dry & clean conditions.



PARAMETER SELECTION TABLE

Remark	Series	Type	Supply	Output	Cable Length	
RK	520	02				
			A			5V
			B			12-24V
			X			Other
				A		0-2V
				B		RS485
				X		Other
					2000	Units:mm (typ)
					...	Units:mm

Example: RK520-02BA2000 Supply: 12-24V, Output:0-2V,Cable Length:2m.



Complies with applicable CE directives.

Specifications subject to change without notice. Version 3.0

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Hunan Rika Electronic Technology Co., Ltd

Add:No 499# of Yingxin Road,
Yuhua District,Changsha,
Hunan,China



+86-731-85132979



info@rikasensor.com



www.rikasensor.com.cn