

The soil all-in-one sensor is suitable for measuring temperature, moisture, EC, pH and the NPK content in soil. It can measure seven parameters simultaneously, and the parameters can be arbitrarily combined to facilitate the user's system evaluation of soil conditions. The sensor has high accuracy, fast response and stable output: it is less affected by the salt content of the soil and suitable for all kinds of soil. It can be buried in the soil for a long time, resistant to long-term electrolysis, corrosion resistance, vacuum potting and completely waterproof.

## FEATURES

- Fast response speed
- Small zero drift and good repeatability
- Low power consumption, long life
- Strong anti-interference ability
- The equipment is stable and reliable
- Simultaneous measurement of multiple parameters



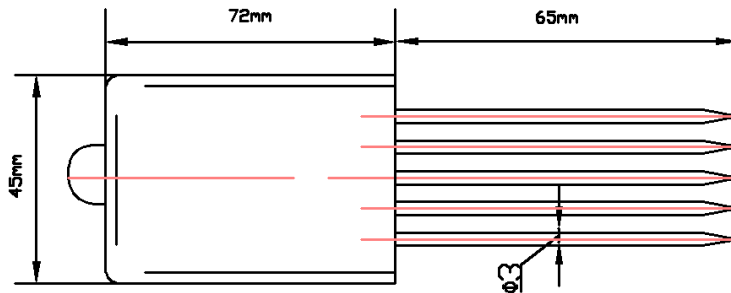
## APPLICATIONS

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

## TECHNICAL SPECIFICATION

Item	Technical Specification		
	Range	Accuracy	Resolution
Temperature	-40~+80°C	±0.5°C	0.1°C
Moisture	0-100%	±3%(0-53%), ±5%(54-100%)	0.1%
EC	0-10ms/cm	±3%F.s	0.01ms/cm
pH	3-9 pH	±0.3 pH	0.01 pH
NPK	0-1999mg/kg	±2%F.s	1 mg/kg
Output Signal	RS485		
Response Time	<1s		
Supply	12-24VDC		
Housing	ABS		
Operating Temperature	-40°C~+80°C		
Ingress Protection	IP68		
Storage	10-60°C@20%-90%RH		
Probe material	316L stainless steel		

**DIMENSIONS**



**PARAMETER SELECTION TABLE**

Remark	Series	Type	Output	Parameter	Cable Length	
RK						
	520					
		10				
			A			RS485
			X			Other
				A		NPK, Temp.& moisture
				B		NPK& pH
				C		NPK& EC
				D		NPK, pH, Temp.& moisture
				E		NPK, pH& EC
				F		NPK, pH, EC, Temp.& moisture
				G		pH, Temp.& moisture
						pH& EC
						pH, EC, Temp.& moisture
					2000	Units: mm (typ)
					3000	Units: mm
					...	Units: mm



Complies with applicable CE directives.

Specifications subject to change without notice. Version 3.0

Copyright © 2015 Hunan Rika Electronic Tech Co.,Ltd

**Hunan Rika Electronic Tech Co., Ltd**

Add: Building B5, Taskin, Yuhua District,  
Changsha City, Hunan Province,  
China



+86-731-85132979



info@rikasensor.com



www.rikasensor.com