

RK510-01 Soil Moisture Sensor is based on FDR(Frequency Domain Reflectometry) principle to measure the volumetric water content in soil. The stainless steel probe is inserted into soil surface or soil profile to test soil moisture quickly. The probe can be permanently embedded underground and be connected to a data logger for unlimited testing.

FEATURES

- Four 316L needle probe
- High stability
- High accuracy
- Fast response
- Easy Installation



APPLICATIONS

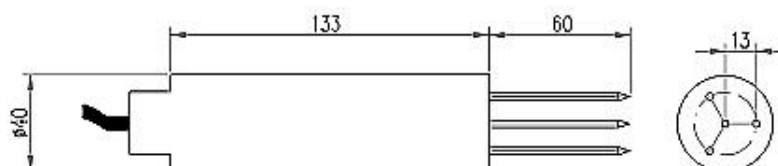
- Agriculture irrigation
- Greenhouse
- Grass farm
- Environment monitoring
- Water conservation
- Soil testing

TECHNICAL SPECIFICATION

Item	Technical Specification
Range	0-100% (m ³ /m ³)
Accuracy	±2%
Output Signal	4-20mA ,0-5V,RS485 optional
Response Time	<1s
Supply	12-24VDC
Effective measurement area	With the center of the probe diameter is 70mm, high 70mm cylinder
Housing	ABS
Dimensions	Ø40*152mm(4 probe:60mm)
Operating Temperature	-30°C-+70°C
Ingress Protection	IP68
Storage	10-60°C@20%-90%RH
Probe material	316L stainless steel

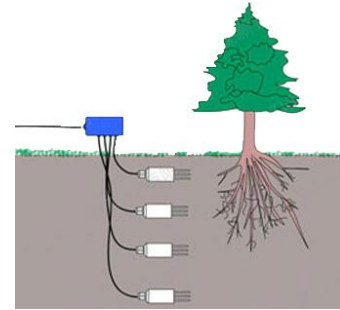
DIMENSION

Unit:mm



MOUNTING

- Testing medium should be with uniform intensity;
- 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;
- 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;
- 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;
- Please keep the sensor in dry & clean conditions.



PARAMETER SELECTIONTABLE

Remark	Series	Type	Supply	Output	Cable Length	
RK						
	510					
		01				
			A			12-24V
			B			Other
				A		4-20mA
				B		0-5V
				C		RS485(Modbus-RTU)
				D		Customized
					2000	Units:mm (typ)
					...	Units:mm

Example: RK510-01AA2000 Supply: 12-24V, Output:4-20mA,Cable Length:2m.


CE Complies with applicable CE directives.

Specifications subject to change without notice. Version 1.0

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