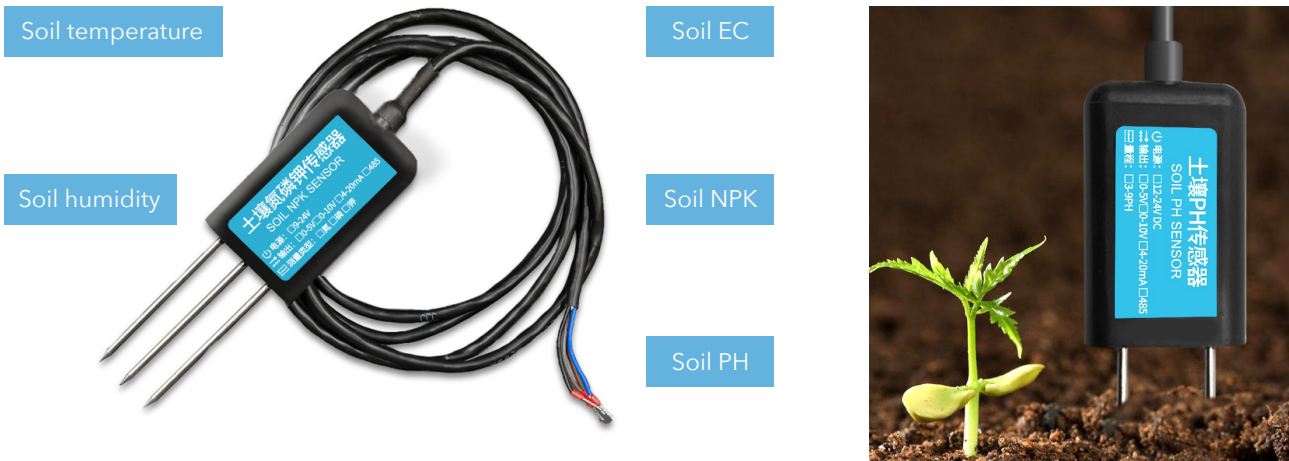


SEM225 Series Soil Temperature/Humidity/EC/PH/NPK Sensor

OVERVIEW

SEM225 series soil sensor is a high-precision and sensitive sensor for online measuring soil humidity / temperature / conductivity(EC) / PH / NPK. Compared with the original high-precision sensor of Germany and calibrated by the actual drying and weighing method of soil, it has high precision, fast response and stable output.

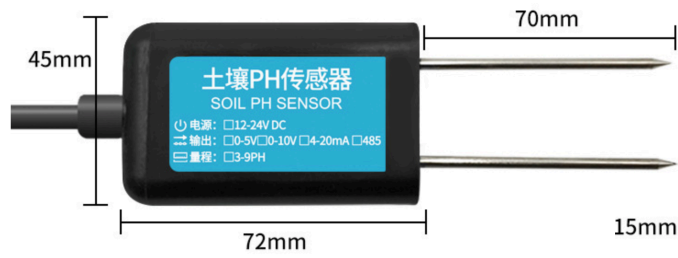
Agricultural sensor series products are widely used in agricultural greenhouses, flower cultivation, pasture grassland and other occasions.



MODEL FUNCTION

PARAMETERS	Soil humidity/temperature	Soil EC	Soil PH	Soil NPK
Function type				
Range	H:0%-100% T: -40°C~+80°C	0-20000us/cm	3~9PH	0~1999mg/kg
Accuracy	H:±3%(5%~95%,25°C) T: ±0.5°C (25°C)	±3%	±0.3PH	±2%F.S
Power supply	5~30V DC	5~30V DC	5~30V DC	5~30V DC
Long-term stability	H: ≤1%/year T: ≤0.1°C/year	≤1%/year	≤5%/year	≤5%/year
Working temperature	-40°C~+80°C	-40 ~ +80°C	-20 ~+60°C	5 ~ +45°C
Working humidity	0%-100%	0%-100%	5%-95%	5%-95%
Response time	≤1s	≤1s	≤10s	≤1s
Signal output	4~20mA,0~5V,RS485	4~20mA,0~5V,RS485	4~20mA,0~5V,RS485	4~20mA,0~5V,RS485
Resolution	H: 0.1% T: 0.1°C	1us/cm	0.1	1mg/kg(mg/l)
Protection	IP68	IP68	IP68	IP68

OUTLINE CONSTRUCTURE



**Protection grade: IP68**

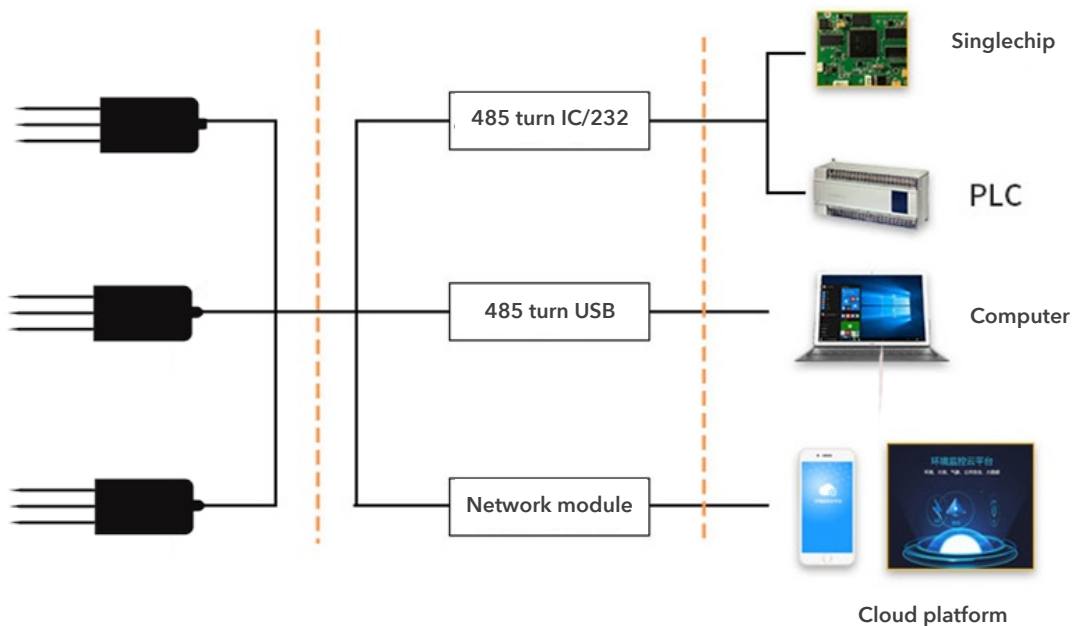
High density epoxy resin is used between the probe and the body, which can prevent moisture from entering the machine sensor for good sealing performance.

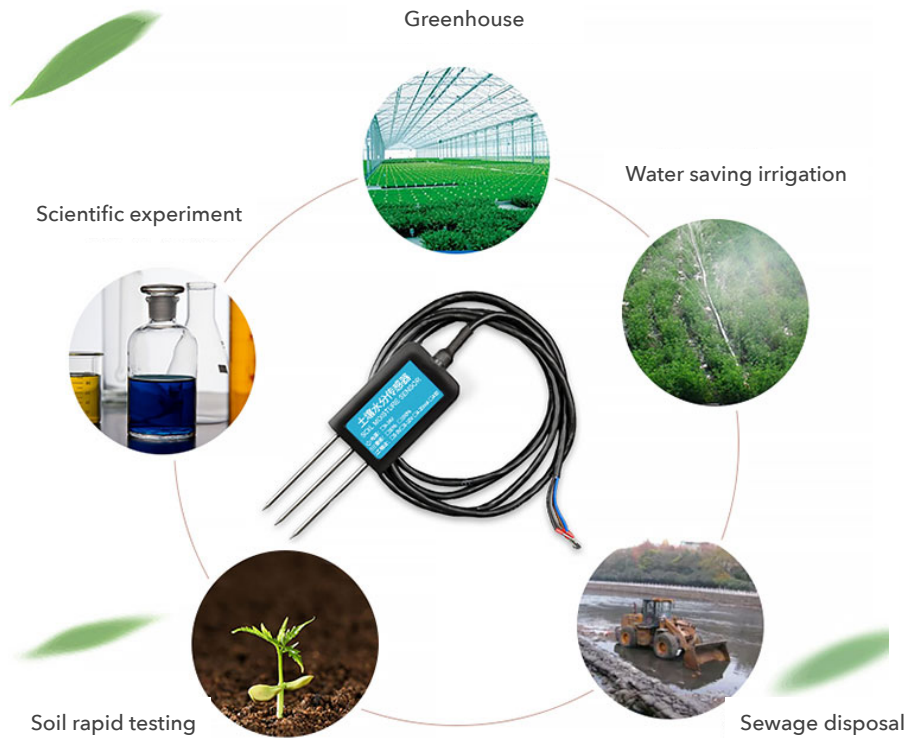
**Austenitic 316 stainless steel probe**

Rust proof, resistance to point solution, salt and alkali corrosion, ensure long-term operation of probe part. Therefore, it is suitable for all kinds of soil.



APPLICATION





**ORDER CODE**

SEM225	Soil sensor		
	<b>CODE</b>	Function type	
	A	Soil humidity	
	B	Soil temperature	
	C	Soil humidity + temperature	
	D	Soil conductivity (EC)	
	E	Soil humidity + EC	
	F	Soil temperature + EC	
	G	Soil humidity & temperature + EC	
	H	Soil PH	
	I	Soil humidity & temperature + PH	
	J	Soil nitrogen (N)	
	K	Soil phosphorus (P)	
	L	Soil potassium (K)	
	M	Soil N+P+K	
		<b>CODE</b>	Signal output
		1	RS485
		2	4~20mA
		3	0~10V
		4	0~5V
		5	1~5V
SEM225	E	1	Order example