

SEM225B Leaf Wetness Sensor

FEATURES

- Reflect the water content of leaf
- Fog, freezing, condensation and rainfall can be detected
- Good waterproof sealing performance
- High precision, fast response, reliable performance
- Multiple signal output options



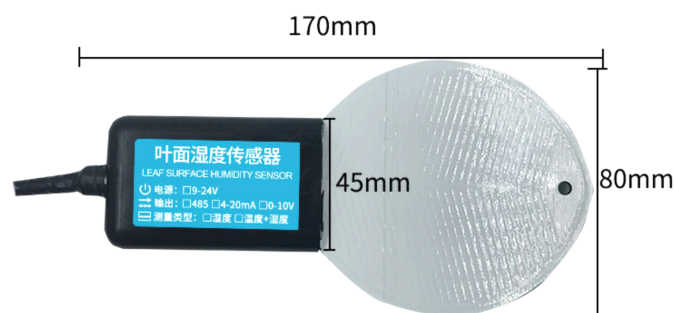
OVERVIEW

SEM225B Leaf wetness sensor is an important tool for observing and studying leaf wetness, preventing pests and diseases, and spraying sprinkler control. The accurate measurement of the moisture content of the leaf surface can be used to monitor the trace moisture or ice crystal residue. The shape of the sensor is simulated by the blade, which can simulate the characteristics of the leaf surface, so that it can reflect the situation of the leaf surface more accurately. By measuring the variation of the dielectric constant of the upper surface of the blade, the mist, water vapor and ice can be measured.

SPECIFICATION

ITEMS	PARAMETERS
Range	Wetness: 0-100%, Temperature: -40-+80°C
Accuracy	Wetness: ±5%RH (@25°C), Temperature: ±1°C (@25°C)
Resolution	Wetness: 0.1%RH, Temperature: 0.01°C
Power supply	5VDC, 12-24VDC
Repeatability	<±3%FS
Temperature drift	≤0.2%FS/°C
Operating temperature	-40°C-+80°C
Storage	-40-70°C@20%-90%RH
Signal output	4~20mA, 0~5V, RS485
Dimensions	65*13*145mm
Protection	IP68

DIMENSION



OUTLINE CONSTRUCTURE

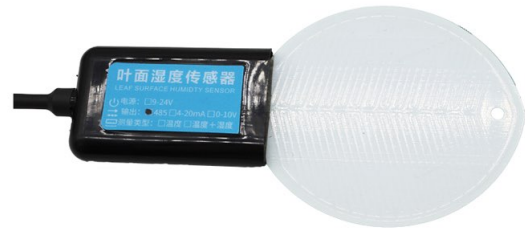


Monitoring leaf surface humidity

Monitoring the residual of moisture and ice crystal on the leaf surface, warning plant diseases and insect pests.

Low power consumption

The blade is designed to simulate the real environment of the blade surface with stable performance and high sensitivity.



Waterproof seal, IP65 protection grade

IP65 protection grade, can be directly applied to page fertilization, spray irrigation occasions.



ORDER CODE

SEM225B	Leaf wetness sensor			
	CODE	Power supply		
	X	12~24V DC (Default)		
		CODE	Signal output	
		1	RS485	
		2	4~20mA	
		3	0~10V	
	4	0~5V		
SEM225B	X	1	Order example	