



## Leaf Wetness Sensor

### OVERVIEW

MBMet 300 Leaf Wetness Sensor is an innovative and easy-to-use tool for observing and studying leaf wetness, preventing pests and diseases. The accurate measurement of moisture content on the leaf surface can be used to monitor the trace moisture or ice crystal residue. This enables researchers to forecast diseases and protect plant canopies. By measuring the variation of dielectric constant of the upper surface of the blade mist, water vapor and ice can be measured.



MBMet 300 series

### BENEFITS AND FEATURES

- ▶ Good waterproof sealing performance
- ▶ High precision, fast response, reliable performance
- ▶ No user manipulation or painting required
- ▶ High resolution
- ▶ Low power
- ▶ Outputs in Analog 4-20mA and Digital RS-485 Modbus

### TECHNICAL DESCRIPTION

Model/Parameters	MBMet-300-A	MBMet-300-B
Communication Output	4-20mA	RS-485 Modbus
Measuring Range	Wetness : 0-100%	Wetness : 0-100% Temperature : -40 to 80°C
Accuracy	Wetness : ±3% (0-50%), ±5% (>50%)	Wetness : ±3% (0-50%), ±5% (>50%) Temperature : ±0.5°C
Repeatability	<±3% FS	
Temperature Drift	≤0.2% FS/°C	
<b>Electrical Specifications</b>		
Input Voltage	12 to 24VDC	
<b>General Specifications</b>		
Operating Temperature Range	-40°C to +80°C	
Ingress Protection Rating	IP65	
Dimension	65 × 13 × 145mm	
Storage	-40 to 70°C @ 20% to 90% RH	

### ORDERING STRING

Model	Series	Output	Cable Length	
MBMet				
	300			
		A		4-20mA
		B		RS-485 Modbus
			3000	Units : mm (default)
			.....	Units : mm (on request)

For example : MBMet-300-B3000  
 Parameter : Leaf Wetness  
 Output : RS-485 Modbus, Cable Length : 3 meters

**\*\*Specifications are subject to change without notice.**

