

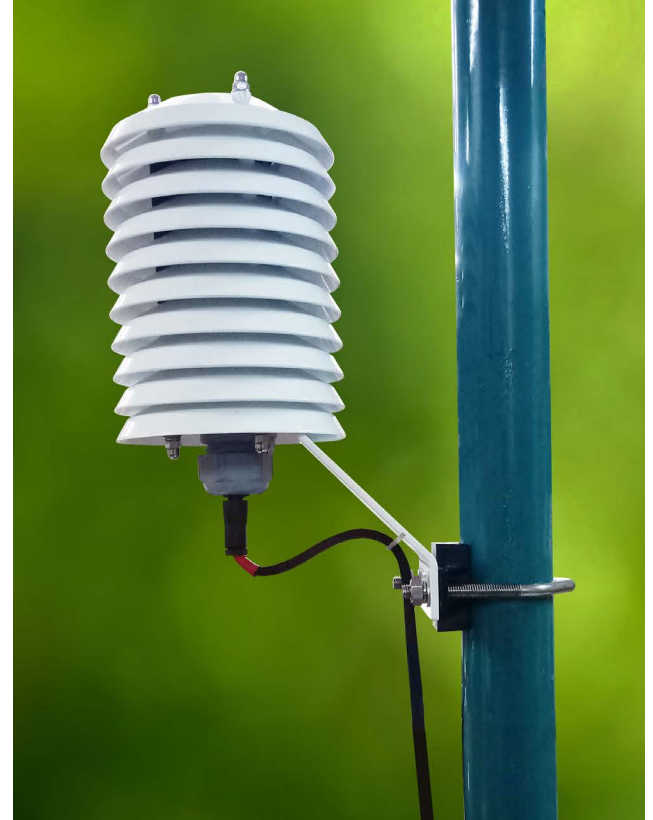


Radiation Shield

OVERVIEW

Ambient weather monitoring sensors have applications in a wide range of industries. Whether it is in Solar, Meteorology, Agriculture, or even in Smart Cities, having accurate weather data is an absolute necessity. However, exposing these sensors to constant solar radiation not only damages them over time, but also introduces an error in their measurements. Therefore, Radiation Shields are a must-have to ensure longevity of sensors and accurate measurements.

The MBMet 702 series Radiation Shield offers high-quality, long-lasting and an economical solution to the problem. It helps eliminate errors caused by solar radiation and offers an effective protection against sun, dirt, rain, snow, sand, and dust, keeping the sensor safe even in the harshest of environments.



MBMet 702 installed in an outdoor location

BENEFITS AND FEATURES

- ▶ Reduction in solar radiation errors – greater accuracy
- ▶ Unique wasp and bug deterrence
- ▶ Enhanced Protection to keep the sensor safe from various environmental factors
- ▶ Extra secure positive locking cable glands
- ▶ Proven toughness, U.V stability and salt spray resistance

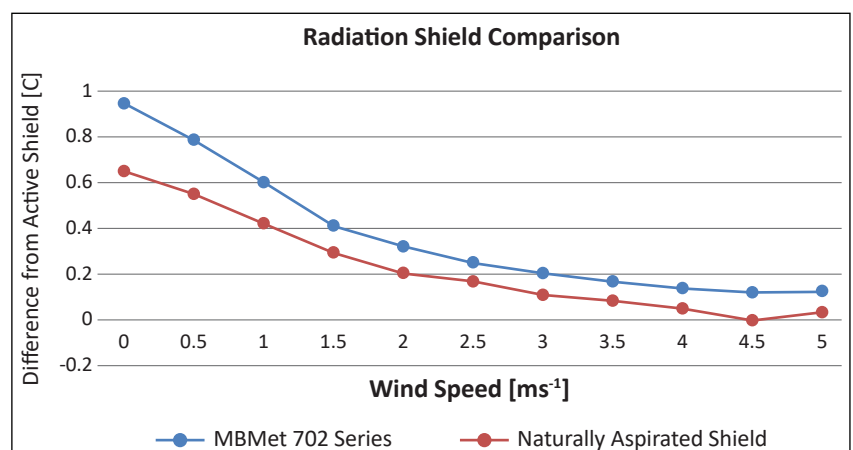
RADIATION SHIELD SPECIFICATIONS

Housing Material	Double louvred UV stable Polycarbonate Plastic plates with Stainless Steel screws
Housing Plates	10-Plates Radiation Shield
Dimensions	Outer diameter : 123mm, Height : 208mm (without mounting bracket)
Weight	MBMet 702-AA : 715g and MBMet 702-AB : 770g (with mounting bracket)
Waterproof Glands	M32*1.5

TEST INTER-COMPARISON

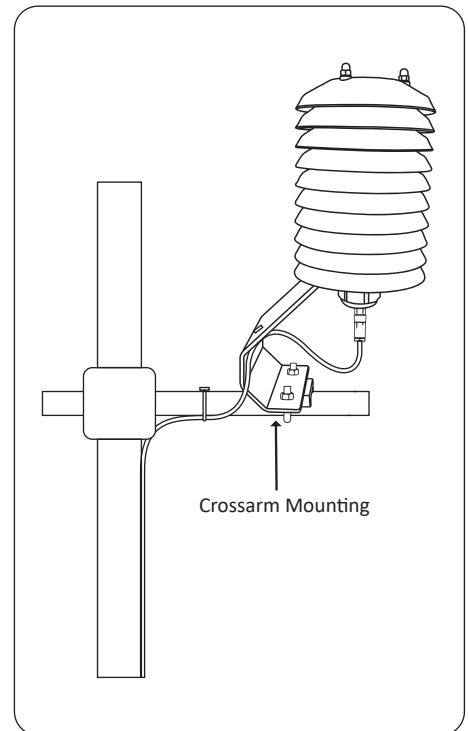
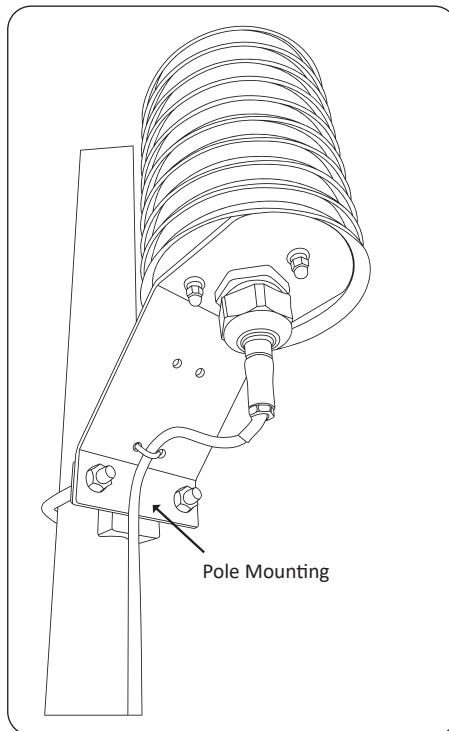
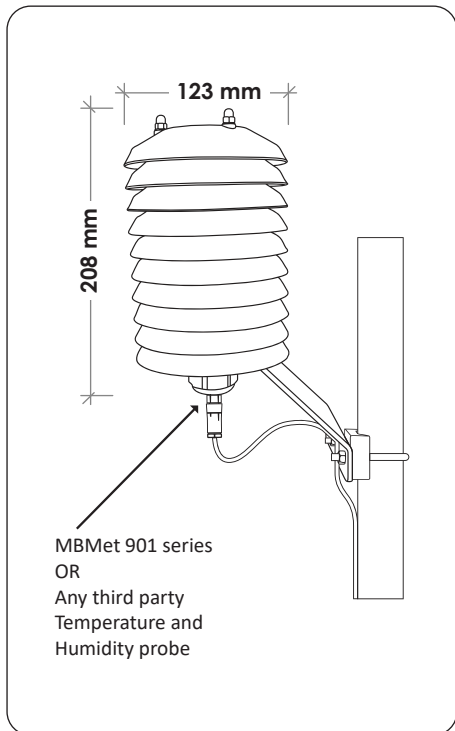
The data in the graph are averages that show the mean temperature difference as a function of wind speed. Temperature measurements from each passive shield were compared to temperature measurements from an active shield.

In conclusion, MBMet 702 series performs better at different wind speeds as compared to other Naturally Aspirated Shields in the market.





RADIATION SHIELD MOUNTING AND DIMENSIONS



ORDERING STRING

Model	Series	No. of Plates	Mounting Arrangement	
MBMet				
	702			
		A		10-Plates
			A	Pole Mounting
			B	Crossarm Mounting

For example : MBMet-702-AB

Parameter : Radiation Shield 10-Plates with Crossarm Mounting Arrangement



MBMet 702-AA series



MBMet 702-AB series

M. B. Control & Systems with an experience of 35+ years are the leading manufacturer and solution provider in Electrical Automation and Instrumentation sector. Our weather station "SURYA" and sensors "MBMet series" are assembled and manufactured in Kolkata, West Bengal, India, where we have our R&D, manufacturing, testing and support team ensuring high quality design, product and customer support. Every sensor has been designed to provide scientific-grade precision and accuracy. They are tested rigorously in-house before shipping. The experienced R&D team puts in best efforts refining and upgrading the sensors to ensure minimal sensor routine maintenance.

**Specifications are subject to change without notice.

