



Wind Speed Sensor

OVERVIEW

The MBMet 100 series Wind Speed Sensors are specifically designed to provide reliable and accurate wind velocity measurement under adverse environmental conditions. The sensor features economical pricing, fast response, low-threshold and excellent linearity over entire operating range. The sensor inside and turning position comes with protective sealing offering full protection against water, dust, pollutants and electromagnetic interference. It installs in minutes and provide accurate, long-term, continuous monitoring even in harsh weather conditions.

BENEFITS AND FEATURES

- ▶ Low starting threshold
- ▶ Strong corrosion resistant ability
- ▶ Stainless steel wind cup, anti-wind load upto 70m/s (156.6 mph)
- ▶ Various output signal options
- ▶ Double bearing design
- ▶ Easy Installation



MBMet 100 series

APPLICATIONS

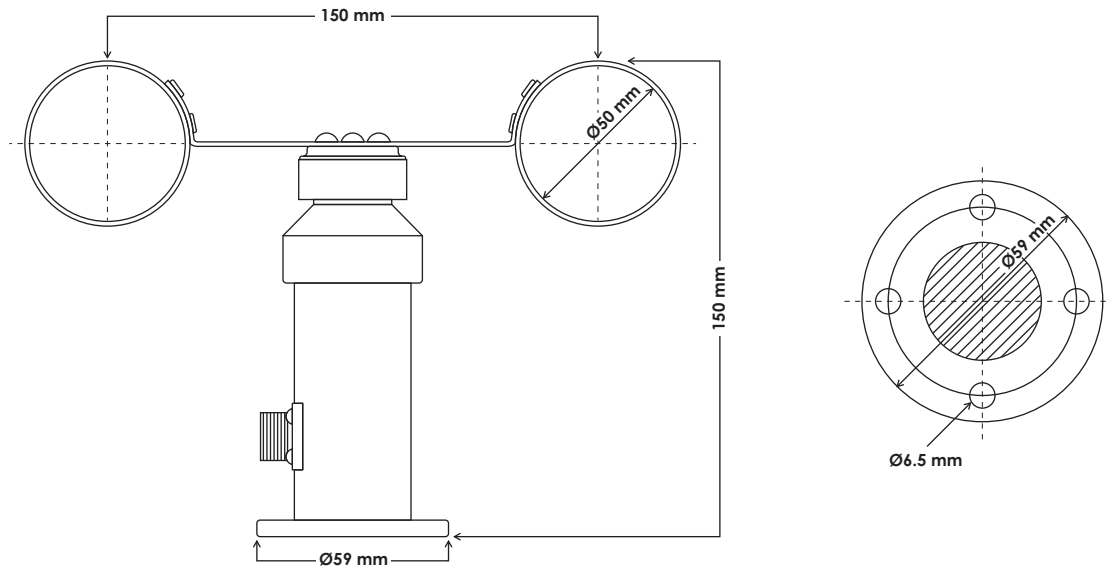
- ▶ Weather Stations
- ▶ Smart Cities
- ▶ Solar and Wind Power Generation Plants
- ▶ Marine Vessels
- ▶ Airports
- ▶ Road Management

TECHNICAL DESCRIPTION

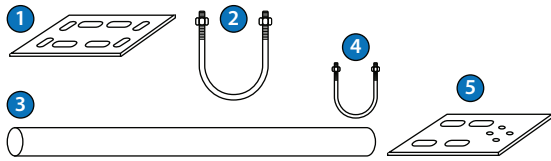
Model/Parameters	MBMet-100A		MBMet-100B		MBMet-100C		MBMet-100D	
	-A	-B	-A	-B	-A	-B	-A	-B
Measuring Range	0 to 30m/s (0 to 67 mph)	0 to 60m/s (0 to 134 mph)	0 to 30m/s (0 to 67 mph)	0 to 60m/s (0 to 134 mph)	0 to 30m/s (0 to 67 mph)	0 to 60m/s (0 to 134 mph)	0 to 30m/s (0 to 67 mph)	0 to 60m/s (0 to 134 mph)
Communication Output	4-20mA		RS-485 Modbus		0-5V		0-10V	
Accuracy	±0.5m/s(<5m/s) ±3%FS (≥5m/s)		±0.5m/s(<5m/s) ±2%FS (≥5m/s)		±0.5m/s(<5m/s) ±3%FS (≥5m/s)		±0.5m/s(<5m/s) ±2%FS (≥5m/s)	
Measurement Performance								
Resolution	0.2m/s (0.4 mph)							
Starting Wind Speed	<0.8m/s (1.7 mph)							
Survival Wind Speed	70m/s (156.6 mph)							
Electrical Specifications								
Input Voltage	12 to 24VDC							
Power Consumption	16.8mA @ 12VDC							
General Specifications								
Operating Temperature	-30°C to +70°C							
Ingress Protection Rating	IP65							
Storage Condition	10°C to 60°C @ 20% to 90%RH							
Cable Type/Length	UV protected cable/3 meters							
Dimension	Cup rotor : ø200mm Height : 150mm							
Body Material	Cup : 304 stainless steel Main Body : Aluminum alloy							
Weight (packed)	480g (with standard 3 meters cable)							



DIMENSIONS & MOUNTING



MOUNTING ACCESSORIES



A) Pole Mounting Accessories

- 1 nos. (L) 142mm × (W) 120mm arm mounting plate
- 2 nos. 50mm U-clamp
- 1 nos. (L) 900mm GI arm
- 4 nos. 31.75mm U-clamp
- 1 nos. (L) 125mm × (W) 110mm × (H) 60mm sensor mounting plate

ORDERING STRING

Model	Series	Output	Range	Accessories	Cable Length
MBMet					
	100				
		A			4-20mA
		B			RS-485 Modbus
		C			0 to 5V
		D			0 to 10V
			A		0 to 30m/s
			B		0 to 60m/s
				A	With Pole Mounting Accessories
				X	No Accessories
					3000 Units : mm (default)
				 Units : mm (on request)

For example : MBMet-100B-BA3000

Parameter : Wind Speed, Output : RS-485 Modbus, Range : 0 to 60m/s
with Pole Mounting Accessories, Cable Length : 3 meters

**Specifications are subject to change without notice.

