



Wind Speed and Direction Sensor

OVERVIEW

MBMet 120 series combine Wind Speed and Direction measurements in a single sensing unit. The sensor uses conventional cup and vane technique for measurements. It installs in minutes and provides accurate, long-term, continuous monitoring even in harsh conditions. The sensing component is sealed in the waterproof housing shell. The sensor uses a quick connect sensor cable which can be extend to hundreds of meters without affecting the performance MBMet 120 series sensor features low starting, non-blind zone measurement and a long service life.

BENEFITS AND FEATURES

- ▶ Compact Wind Speed and Direction Sensor
- ▶ Low starting threshold
- ▶ Easy maintenance and re-alignment
- ▶ Long field life
- ▶ Adapt to harsh weather conditions
- ▶ Easy Installation
- ▶ Outputs in 4-20mA and RS-485 Modbus

APPLICATIONS

- ▶ Solar and Wind Power Generation
- ▶ Wind Resource Assessment
- ▶ Environment Monitoring
- ▶ Bridge and Tunnel
- ▶ Automatic Weather Stations
- ▶ Agriculture



MBMet 120 installed in a Solar Plant



MBMet 120 series

TECHNICAL DESCRIPTION

Model/Parameters	MBMet-120A	MBMet-120B
Communication Output	4-20mA	RS-485 Modbus
Wind Speed (Anemometer)		
Measuring Range	0 to 60m/s	
Accuracy	±2%	
Resolution	0.2m/s	
Wind Direction (Vane)		
Measuring Range	0 to 360°	
Accuracy	≤±3°	
Resolution	1°	
Measurement Performance		
Starting Threshold	≤0.5m/s	
Extreme Wind Speed	70m/s	



TECHNICAL DESCRIPTION *(Cont.)*

Model/Parameters	MBMet-120A	MBMet-120B
Electrical Specifications		
Input Voltage	12 to 24VDC	
Power Consumption	80mA @24VDC	
General Specifications		
Operating Temperature	-40°C to +70°C	
Ingress Protection Rating	IP65	
Dimension	Anemometer rotor diameter = Ø180mm, Wind vane radius = 270mm, Total height = 265mm	
Body Material	Housing : AlMgSi, gray anodized, Cups : PA, reinforced with carbon fiber, Vane : PA, reinforced with fiberglass	
Weight (packed)	944g (with standard 5 meters cable)	

ORDERING STRING

Model	Series	Output	Accessories	Cable Length	
MBMet					
	120				
		A			4-20mA
		B			RS-485 Modbus
			A		With Pole Mounting Accessories
			X		Without Pole Mounting Accessories
				5000	Units : mm (default)
				Units : mm (on request)

For example : MBMet-120B-A5000

Parameter : Wind Speed + Wind Direction

Output : RS-485 Modbus with Pole Mounting Accessories, Cable Length : 5 meters

M. B. Control & Systems with an experience of 35+ years in the field of electrical automation and instrumentation, in 2017 ventured into turnkey Weather Monitoring Stations. Further, we set up in-house production for high accuracy and reliable weather monitoring sensors under the name “**MBMet**” series. The MBMet series currently includes Air Temperature, Relative Humidity, Barometric Pressure, Wind Speed, Wind Direction and PV Module Temperature sensors in Digital and Analog Outputs.

SEE ALSO

- **MBMet 100** Wind Speed Sensor
- **MBMet 110** Wind Direction Sensor
- **MBMet 140** Ultrasonic Wind Speed & Direction Sensor
- **MBMet 800** PV Module Temperature Sensor
- **MBMet 901** Air Temperature, Humidity & Pressure Sensor
- View our complete range of **Weather Sensors**

**Specifications are subject to change without notice.

