OVERVIEW
The MBMet 110 series offer wind direction indicators that provide visual indication of wind direction. It installs in minutes and provides accurate, long-term, continuous monitoring even in harsh conditions. Digital circuits are capable of strong RFI and EMI resistance and the automatic temperature compensation is built in. The sensor construction reflects high reliability and durability providing minimal maintenance. The MBMet 110 series material design offers superb dirt and weather resistance for long-term measurement stability in dirty and cloudy environments.

BENEFITS AND FEATURES
- Low starting threshold
- Strong corrosion resistant ability
- Various Output signal options
- Double bearing design
- Long-term stability in dirt and dusty environment
- Easy Installation

APPLICATIONS
- Weather Station
- Smart Cities
- Solar and Wind Power Generation Plants
- Marine Vessels
- Airports
- Road Management

TECHNICAL DESCRIPTION

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>1°</td>
<td>22.5°</td>
<td>1°</td>
<td>22.5°</td>
<td>1°</td>
<td>22.5°</td>
<td>1°</td>
<td>22.5°</td>
</tr>
<tr>
<td>Communication Output</td>
<td>4-20mA</td>
<td>RS-485 Modbus</td>
<td>0-5V</td>
<td>0-10V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measuring Range</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0 to 360°</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>±3°</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Measurement Performance
- Starting Wind Speed: <0.5m/s (1.1 mph)
- Survival Wind Speed: 70m/s (156.6 mph)

Electrical Specification
- Input Voltage: 12 to 24VDC

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
- Body Material: Vane: 304 stainless steel
  Main Body: Aluminum alloy
- Weight (unpacked): 410g
DIMENSIONS & MOUNTING

Flange mounted, fix four screws on the bracket and install the product horizontal.

Resolution : 22.5°

Note: There is one red or white marked point on the sensor, it should be pointed towards north direction while installing.

MOUNTING ACCESSORIES

A) Pole Mounting Accessories
1. 1 nos. (L) 142mm x (W) 120mm arm mounting plate
2. 2 nos. 50mm U-clamp
3. 1 nos. (L) 900mm GI arm
4. 4 nos. 31.75mm U-clamp
5. 1 nos. (L) 125mm x (W) 110mm x (H) 60mm sensor mounting plate

ORDERING STRING

<table>
<thead>
<tr>
<th>Model</th>
<th>Series</th>
<th>Output</th>
<th>Resolution</th>
<th>Accessories</th>
<th>Cable Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBMet</td>
<td>110</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>4-20mA</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B</td>
<td>RS-485 Modbus</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>0 to 5V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>D</td>
<td>0 to 10V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>1°</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B</td>
<td>22.5°</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>With Pole Mounting Accessories</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>X</td>
<td>No Accessories</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3000</td>
<td>Units : mm (default)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>......</td>
<td>Units : mm (on request)</td>
<td></td>
</tr>
</tbody>
</table>

For example: MBMet-110B-AA3000
Parameter : Wind Direction, Output : RS-485 Modbus, Resolution : 1°
with Pole Mounting Accessories, Cable Length : 3 meters

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