

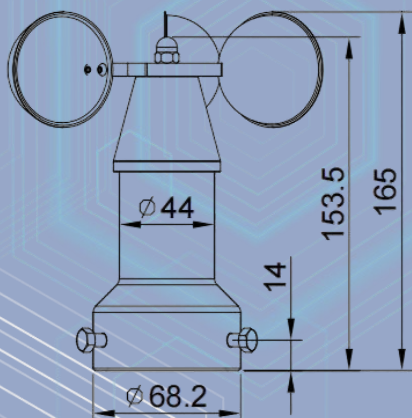
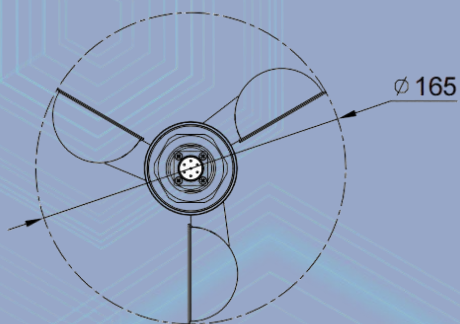


# AIT-FA134 Wind Combined Sensor

## Why Choose AIT-FA134

- Non-contact magnetic sensing is used for the measurement principle, ensuring high accuracy and reliability of the collected data. The anemometer has a wide measurement range and a low start-up wind speed.
- The unit is built with an all-metal housing and an anodized surface, providing excellent corrosion resistance and strong wind cup resilience. The wind cups, made of a magnesium-aluminum alloy, use a proven mechanical connection, making the sensor suitable for various harsh industrial environments.
- Its compact design integrates both wind speed measurement and an automatic heating function, simplifying on-site installation and maintenance. The sensor also features a fault-tolerant design, preventing damage from incorrect wiring.
- Additional features include multi-level lightning and surge protection and the ability to operate across a wide voltage range.

# AIT-FA134



Unit of Size: mm

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## AIT- FA134 Wind Speed Sensor Datasheet

Standards Compliance

CE/IEC 61326

### Electrical Parameters

Operating Voltage

12VDC~30VDC<sup>1</sup>

Operating Current

50mA Max<sup>2</sup>

Heater Voltage

18VDC~30VDC<sup>3</sup>

Heater Power

≤50W

Heater Principle

PTC Heating automatically

EMC / ESD

IEC61000-4-2  
 Contact Discharge:±8kV Air  
 Discharge:±15kV  
 IEC61000-4-5  
 Line-to-Line:±2kV  
 Line-to-Ground:±4kV

Measurement Principle

Magnetic non-contact encoder  
 scanning

Connector

Aviation Connector

Cable Configurations

6-core shielded cable with an  
 aviation connector

### Mechanical Specifications

Colour

Anodized Black

Housing Material

6061/Aluminum, Anodized

Wind Cup Material

5052/Aluminum, Anodized

Bearing Material

Corrosion-resistant stainless steel  
 440C

Net Weight

0.6kg

Operating Temperature

-40℃~+70℃

Operating Humidity

IEC60068-2-3 0~100% RH

Vibration resistance

5-10Hz,d=3mm 10-500Hz,a=2g

Enclosure Protection Rating

IP65

Salt Spray Resistance

ISO9227 720h

### Meteorological Parameters

Starting Threshold

≤0.5m/s Vu=20 C

Survival Wind Speed

>70m/s

Measurement Range

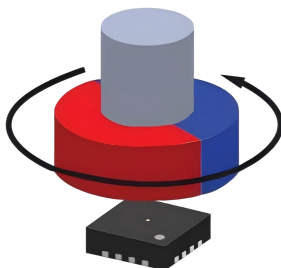
0~50m/s<sup>6</sup>

Measurement Accuracy

±0.5m/s(<5m/s);±3%FS(≥5m/s)

Resolution

0~30m/s /0~50 m/s



The FA13 uses a classic three-cup design to measure wind speed. A magnet at the end of the rotating shaft and an imported magnetic encoder chip on the circuit board form an electromechanical conversion circuit. A microcontroller performs an analog-to-digital conversion and data processing, ensuring accurate and reliable wind speed output.