RK110-01G Wind Direction Sensor

Overview

The RK110-01G Wind Direction Sensor is a sensitive wind direction indicator that provides both visual and digital output. It features built-in digital circuits with strong RFI & EMI resistance and automatic temperature compensation.The sensor's construction meets rigorous requirements for reliability and durability, utilizing only the highest-quality, corrosion-resistant materials including high-strength aluminum and stainless steel. The unit offers excellent resistance to sand, dust, salt spray, and fungal growth.Ideal for wind resource assessment studies, this sensor delivers the accuracy, reliability, and low maintenance required for demanding applications.

Features

- Low starting threshold
- All-metal construction
- Strong corrosion resistant
- Various output signals options
- Surge protection design
- Double bearing design
- Easy Installation

Applications

- Weather monitoring stations
- Ports
- Solar and wind power generation
- Mobile weather monitoring vehicles
- Remote airports & helipads

Technical Parameter

Item	Technical Specification
Supply voltage	12-24VDC
Output	RS485,4-20mA
Range	0-360°
Starting threshold	0.5m/s
Limit wind speed	70m/s
Accuracy	±3°
Resolution	1°
Response time	<1s
Power consumption	20mA@12V
Ingress protection	IP65
Operating temperature	-30℃-+70℃
Main material	Vane:304stainless steel, Main Body: Aluminum alloy
Connector	M12 waterproof connector
Finish	Polyester powder electrostatic spraying(black)
Weight(unpacked)	440g (Excluding wires)
Storage condition	10℃-60℃@20%-90%RH

Output Characteristics

Current(resolution=1°)

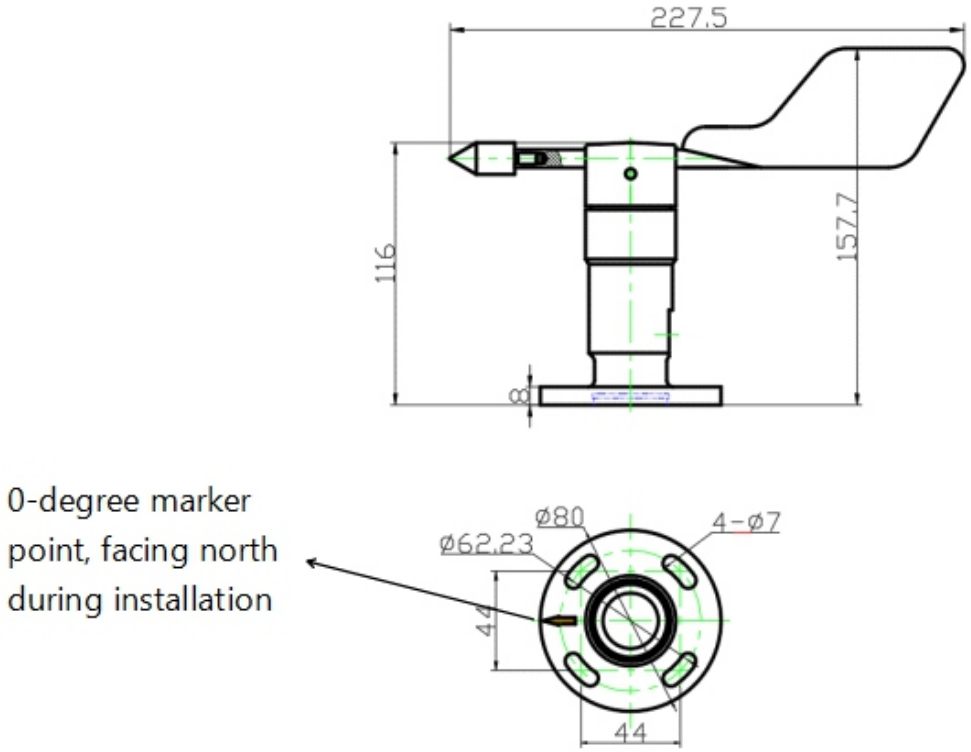
4…20mA is corresponding to 0 … 360°from north to north by clockwise.

Dimension & Mounting

Flange mounted，fix four screws on the bracket and keep the product horizonta.

Remark:

There is one red or white mark point on each product, it should be pointed to north when installation.



Revision time	Reviser	Current Version	Remarks
20250428	Lee	V5. 0	