



# RK110-01G Wind Direction Sensor

## Overview

The RK110-01 Wind direction sensor is a sensitive wind direction indicator that gives a visual indication of wind direction. Digital circuits capable of strong RFI & EMI resistance and automatic temperature compensation are build-in. The construction of the sensor reflects the requirements for reliability and durability. Only the highest quality corrosion resistant materials, such as high strength aluminum and stainless steel are used. The sensor has good resistance to sand, dust, salt spray and fungus resistance. This sensor is ideal for wind resource assessment studies and similar applications requiring accuracy, reliability and minimal maintenance.

## Features

- Low starting threshold
- Massive all-metal construction
- Strong corrosion resistant ability
- Various output signals optional
- 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°C-+70°C
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°C-60°C@20%-90%RH



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## Wind Direction Sensor

### Output Characteristics

#### Current(resolution=1°)

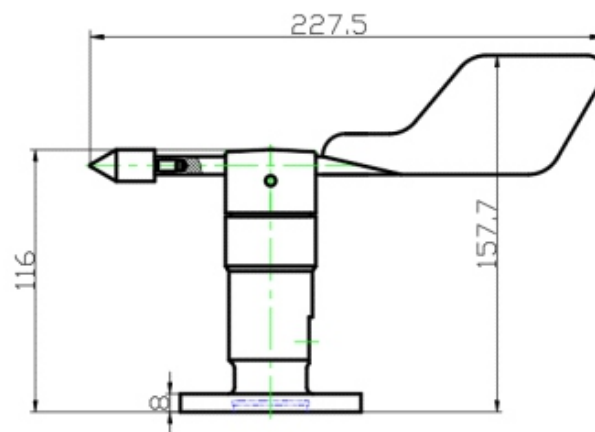
4...20mA is corresponding to 0 ... 360°from north to north by clockwise.

### Dimension & Mounting

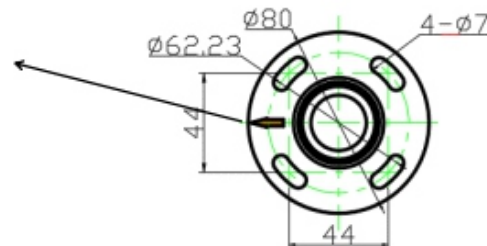
Flange mounted, fix four screws on the bracket and keep the product horizontal.

#### Remark:

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



0-degree marker  
point, facing north  
during installation



Revision time	Reviser	Current Version	Remarks
20250428	Lee	V5.0	