

RK120-10 Ultrasonic Wind Speed and Direction Sensor measure the wind speed & direction by using time difference of ultrasonic wave in the air. The products adopts low power chip and the minimum power consumption is 0.01W. It is especially suitable for high power requirements application like the solar energy or battery power supply. The shell can be made of ABS, aluminum alloy or stainless steel. The surface is treated with special oxidation resistance, corrosion resistance and can be used in different environments.

FEATURES

- Adapt to complex weather conditions
- No moving parts, long service life
- The surface preservative treatment
- Strong anti-interference
- High accuracy



APPLICATIONS

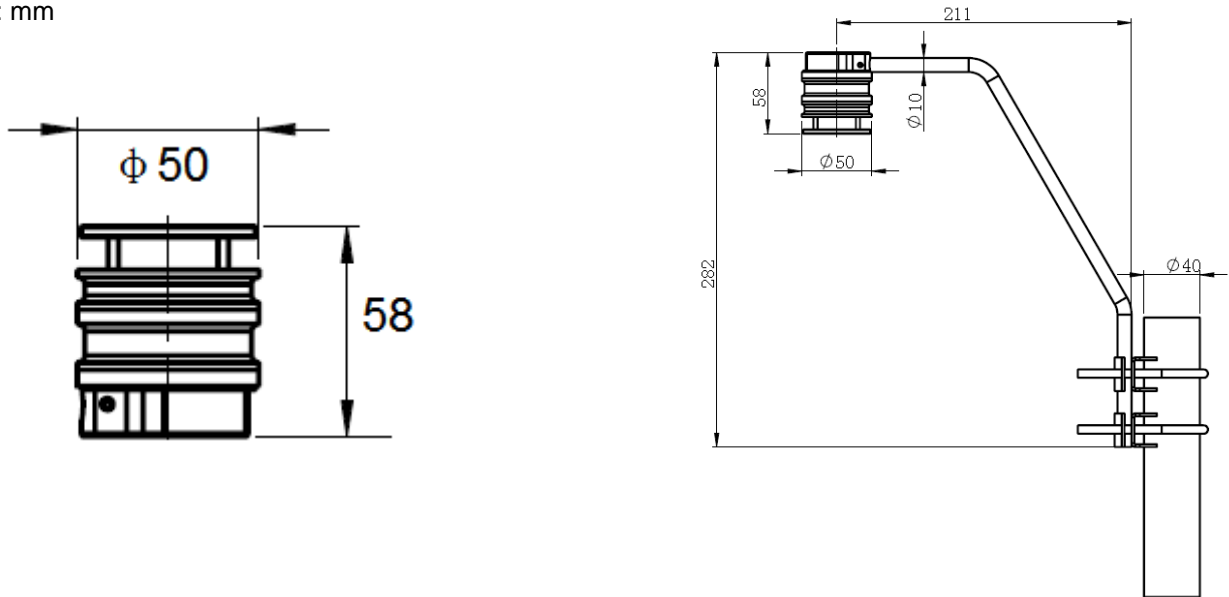
- Environmental monitoring
- Sea buoy wind speed monitoring
- Bridge & Tunnel
- Special pipe wind speed monitoring
- Wind resource assessment
- Drilling platform
- Automatic weather station
- UAV high-altitude wind speed monitoring

SYSTEM TECHNICAL SPECIFICATION

Item	Technical Specification		
Power Supply	12-24VDC		
Power consumption	0.01W(min)		
Output Signal	RS232/RS485(Modbus or NMEA-183), SDI-12		
Operating Temperature	-20°C-+60°C		
Ingress Protection	IP65		
Dimension	Φ50×43-58) mm(Dimensions will vary depending on the parameters)		
Weight(unpacked)	0.20kg (ABS)/ 0.28kg (aluminum alloy)/0.58kg (stainless steel)		
Main material	ABS/ aluminum alloy/ stainless steel		
Item	Technical Specification		
	Range	Resolution	Accuracy
Wind speed	0-60m/s	0.1m/s	±3%
Wind direction	0-359°	1°	±3°
Starting Threshold	0.1m/s		
Extreme Wind Speed	60m/s		

MOUNTING & DIMENSION


unit: mm



PARAMETER SELECTION TABLE

Remark	Series	Type	Material	Supply	Output	Cable length	
RK							
	120						
		10					
			A				ABS
			B				Aluminum alloy
			C				Stainless steel
				A			12-24V
				X			Other
					A		RS485(Modbus)
					B		RS485(NMEA-183)
					C		RS232(Modbus)
					D		RS232(NMEA-183)
					E		SDI-12
						4000	4m default
						10000	10m
						...	

Example: RK120-10AAE4000 ABS, Supply:12-24V, Output: SDI-12 Cable length:4m.

 Complies with applicable CE directives.

Specifications subject to change without notice. Version 1.0

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