

RK120-10 UAV Ultrasonic wind speed and direction sensor measure the wind speed & direction by using time difference of ultrasonic wave in the air. It is specifically designed for installation on small aircraft and unmanned platforms to monitor the wind speed and direction values in low altitude areas. The products adopt low power chip and the minimum power consumption is 0.2W. It is especially suitable for high power requirements application like the solar energy or battery power supply.

FEATURES

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



SYSTEM TECHNICAL SPECIFICATION

Item	Technical Specification		
Power supply	5-30VDC		
Power consumption	15mA@12V		
Output signal	RS485(Modbus or ASCII)		
Operating temperature	-40°C~+70°C		
Operating altitude	0-4000m		
Ingress protection	IP65		
Dimension	Φ46*48mm		
Weight(unpacked)	56g		
Main material	ABS		
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	Supply	Output	Cable length	
RK						
	120					
		10				
			A			5-30V
			X			Other
				A		RS485(Modbus)
				B		RS485(ASCII)
				X		Other
					4000	4m default
					10000	10m
					...	

Example: RK120-10AA4000 Supply:5-30V, Output: RS485(Modbus), Cable length:4m.



Complies with applicable CE directives.

Specifications subject to change without notice. Version 2.0

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