# RK100-05 Pipe Wind Speed Sensor



RK100-05 Pipe Wind Speed Sensor is designed based on the principle of hot-wire, the probe and housing adopt resistance to high temperature and anti-corrosion materials. In the bad environment, it also can work stablely and reliably. It can quickly and accurately tiny air flow measurement. The product has realized high precision and high resolution through internal linear compensation and temperature calibration, and long-term stability is extremely good, which should be installed directly.

### **FEATURES**

- High accuracy in low speed
- High resistance to the instantaneous wind speed
- Strong corrosion resistant ability
- Wide range, good stability
- Various output signals optional
- Easy Installation



## **APPLICATIONS**

- HVAC
- Air condition
- Ventilating system
- Flue gas cleaning system
- Air purification system

## **SPECIFICATIONS**

Item	Specification		
Output	4-20mA,0-10V,RS485,0-5V		
Supply	12-24VDC		
Range	0-5m/s,0-10m/s,0-20m/s,0-30m/s		
Response time	<1s		
Accuracy(0-50°C)	±3%FS		
Resolution	<0.05m/s		
Power consumption	<80mA@24VDC(4-20mA)		
	<60mA@24VDC(RS485,0-5V,0-10V)		
Long-term stability	±0.1m/s per year		
Display	optional		
Ingress protection	IP55		
Operating temperature	-20°C-+70°C		
Main material	ABS		
Probe length	210mm typ., Other length can be customized		
Storage condition	10°C-60°C@20%-90%RH		

### **OUTPUT CHARACTERISTICS**

4-20mA

V(m/s)=((Iout-4)/(20-4))\*(Range\_max-Range\_min)+Range\_min

• 0-10V

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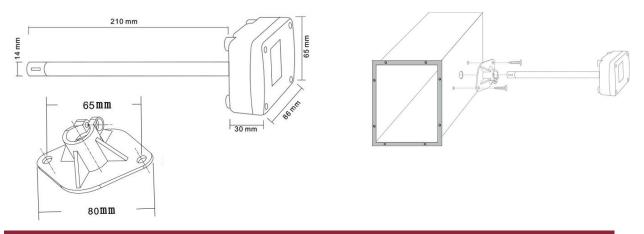
V(m/s)=(Vout/10)\*(Range\_max-Range\_min)+Range\_min

#### RS485

If the transmission distance is over 100m, please add a  $120\Omega$  terminal matching resistances on the front end and back end of bus interface respectively. See the modbus communication protocol specification.

## **DIMENSION & MOUNTING**

When installing the product, please keep the direction of the arrow on the probe and the direction of the wind.



# **PARAMETER SELECTION TABLE**

Remark	Series	Туре	Output	Range	Display	
RK						
	100					
		05				
			Α			4-20mA
			В			0-10V
			С			RS485
			Х			Other
				Α		0-5m/s
				В		0-10m/s
				С		0-20m/s
				D		0-30m/s
				Х		Other
					D	With display
					N	Without display

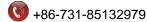
Example: RK100-05ABN Output:4-20mA, Range:0-10m/s, without display

The default power supply voltage is 12-24VDC, if you have other requirements please confirm when ordering.

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