

KD37V88

0-5Vor0-10V Display type wind speed sensor in pipeline

User Manual

File Version: V23.1.28



KD37V88 using the standard ,easy access to PLC , DCS and other instruments or systems for monitoring wind speed state quantities.The internal use of high-precision sensing core and related devices to ensure high reliability and excellent long-term stability,can be customized RS232,RS485,CAN,4-20mA,DC0~5V\10V,ZIGBEE,Lora,WIFI,GPRS and other output methods.

Technical Parameters

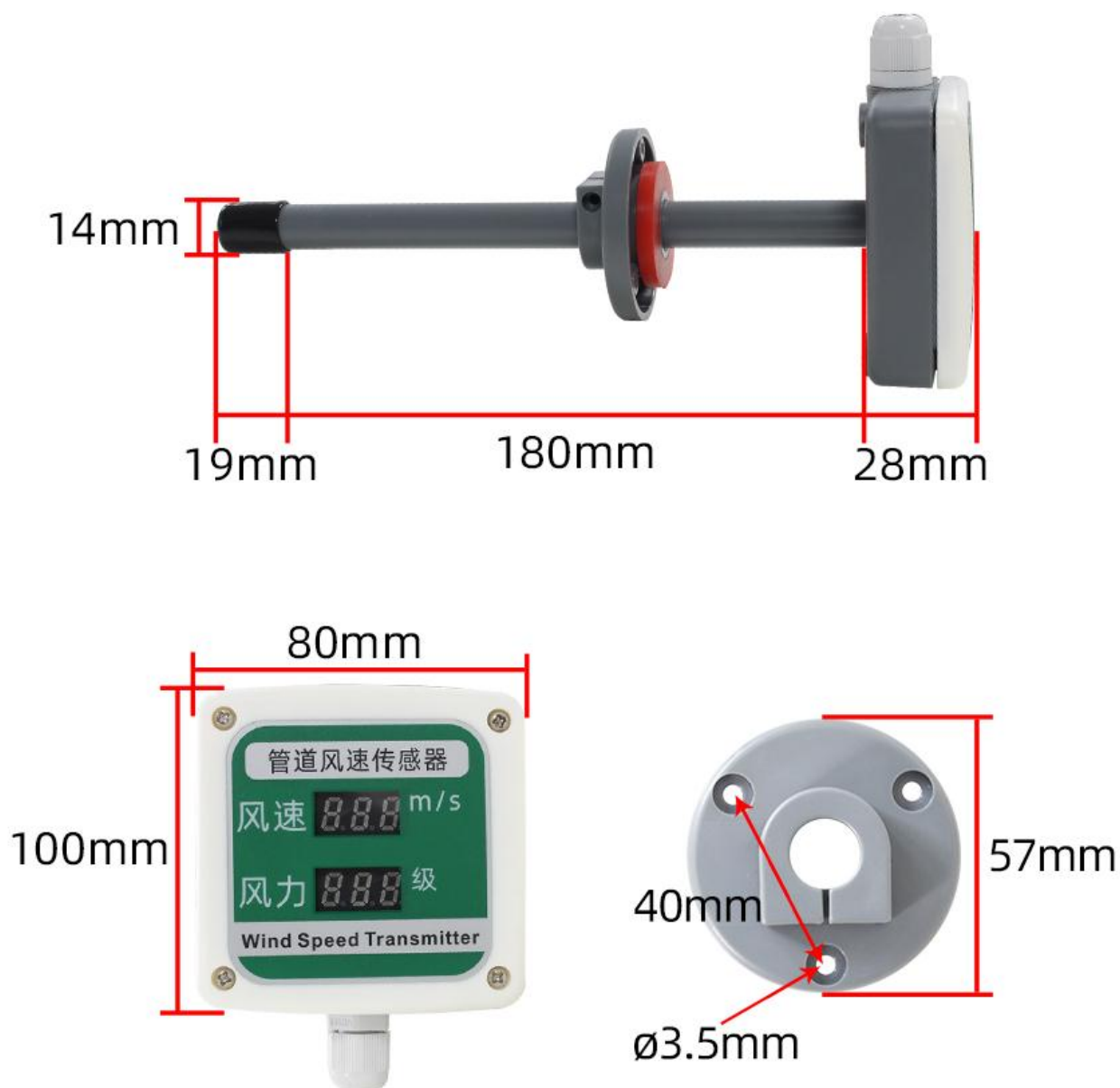
Technical parameter	Parameter value
Brand	KLHA
Wind speed range	0~30m/s
Wind speed accuracy	±3%
Induction principle	Thermal film induction
Power	DC12~24V 1A
Running temperature	-30~85℃
Working humidity	5%RH~90%RH

Product Selection

Product Design DC0-5V, DC0-10V Multiple output methods, the products are divided into the following models depending on the output method.

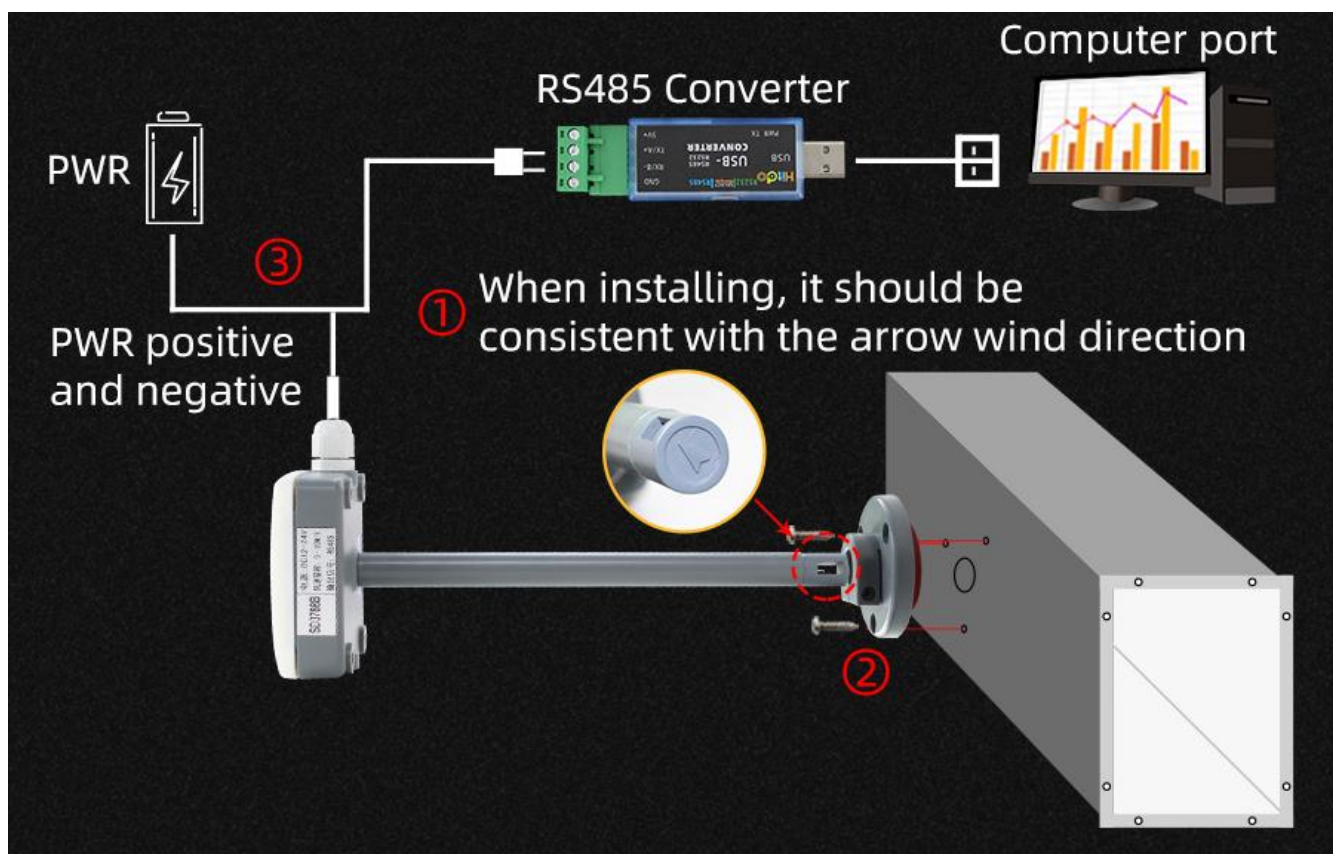
Product model	output method
KD37V8V5	DC0-5V
KD37V8V10	DC0-10V

Product Size



In the case of broken wires, wire the wires as shown in the figure. If the product itself has no leads, the core color is for reference.

Application solution



How to use?



For example, the range is 0~30m/s, the analog output is 0~5V DC0-5Vvoltage signal, wind speed and DC0-5Vvoltage The calculation relationship is as shown in the formula: $C = (A2 - A1) * (X - B1) / (B2 - B1) + A1$, where A2 is wind speed range upper limit, A1 is the lower limit of the range, B2 is DC0-5Vvoltage output

range upper limit, B1 is the lower limit, X is the currently read wind speed value, and C is the calculated DC0-5Vvoltage value. The list of commonly used values is as follows:

DC0-5Vvoltage(V)	wind speedValue (m/s)	Calculation Process
0	0.0	$(30-0)*(0-0)\div(5-0)+0$
1	6.0	$(30-0)*(1-0)\div(5-0)+0$
2	12.0	$(30-0)*(2-0)\div(5-0)+0$
3	18.0	$(30-0)*(3-0)\div(5-0)+0$
4	24.0	$(30-0)*(4-0)\div(5-0)+0$
5	30.0	$(30-0)*(5-0)\div(5-0)+0$

As shown in the above formula, when measuring 2.5V, current DC0-5Vvoltage is 15m/s.

For example, the range is 0~30m/s, the analog output is 0~10V DC0-10Vvoltage signal, wind speed and DC0-10Vvoltage The calculation relationship is as shown in the formula: $C = (A2-A1) * (X-B1) / (B2-B1) + A1$, where A2 is wind speed range upper limit, A1 is the lower limit of the range, B2 is DC0-10Vvoltage output range upper limit, B1 is the lower limit, X is the currently read wind speed value, and C is the calculated DC0-10Vvoltage value. The list of commonly used values is as follows:

DC0-10Vvoltage(V)	wind speedValue (m/s)	Calculation Process
0	0.0	$(30-0)*(0-0)\div(10-0)+0$
1	3.0	$(30-0)*(1-0)\div(10-0)+0$
2	6.0	$(30-0)*(2-0)\div(10-0)+0$
3	9.0	$(30-0)*(3-0)\div(10-0)+0$
4	12.0	$(30-0)*(4-0)\div(10-0)+0$
5	15.0	$(30-0)*(5-0)\div(10-0)+0$
6	18.0	$(30-0)*(6-0)\div(10-0)+0$
7	21.0	$(30-0)*(7-0)\div(10-0)+0$
8	24.0	$(30-0)*(8-0)\div(10-0)+0$
9	27.0	$(30-0)*(9-0)\div(10-0)+0$
10	30.0	$(30-0)*(10-0)\div(10-0)+0$

As shown in the above formula, when measuring 5V, current DC0-10Vvoltage is 15m/s.

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