

USER GUIDE FOR CDF-26B WIND SPEED & DIRECTION RECORDER

CDF-26B-01-MN-10

SEP-2024

This document is applied for the following products

SKU	CDF	HW Ver.	1.0	FW Ver.	1.0
Item Code	CDF-26B	Wind Speed&Direction Recorder , 4G WIFI RS485 Output, Carbon fiber,0-45m/s 0-360°, ±(0.3+0.03V) m/s ±3°			

1. Introductions

CDF-26B wind speed & direction display recorder is a meteorological instrument used to measure and record the wind speed and wind direction. The product adopts high-definition display the current date, time, the wind speed & wind direction value, built-in high-capacity flash memory chip which can be automatically stored for at least one-year meteorological data. The instrument can be widely used in meteorology, agriculture, forestry, environmental protection, marine, airport, port, scientific research and other fields. A complete set of products including CDH-TEA data logger. The default is CDF-10A & CDF-11A, the CDH-TEA data logger can also match CDF-21A/22A to use.



2. Specification

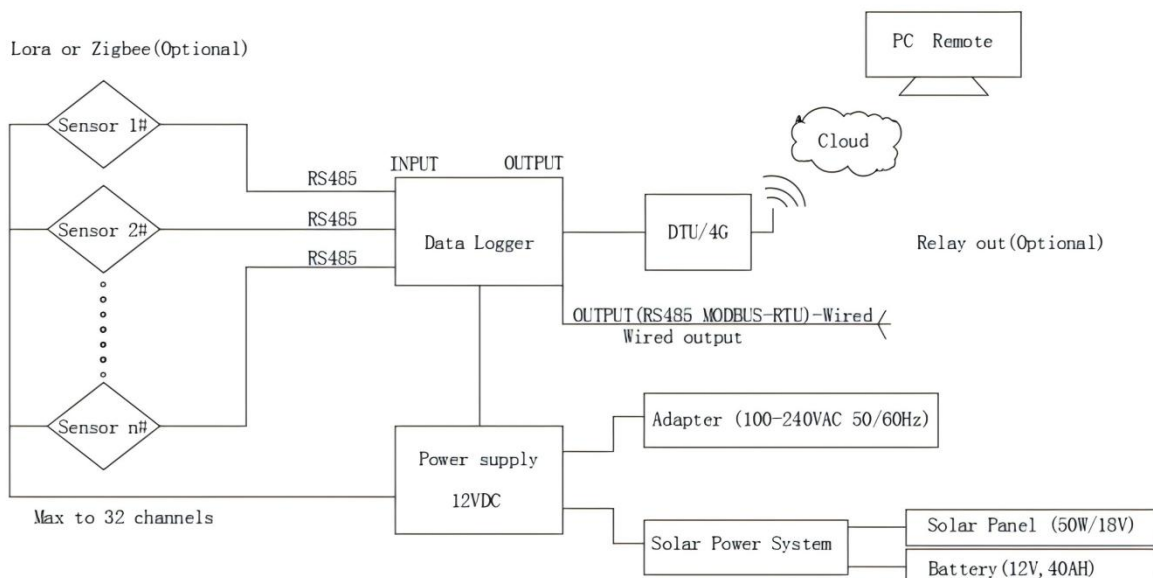
Item	Wind speed (CDF-10A)	Wind direction (CDF-11A)
Range	0-45m/s	0-360°
Resolution	0.1m/s	1°
Accuracy	±(0.3+0.03V) m/s	±3°
Power supply	12VDC (adapter AC100V-AC240V)	
Display	4.3" color touch screen	
Response time	<500mS	
Storage capacity	65000 pieces of data can be stored.	
Recording time interval	1min to 240 min optional	
Measurement parameters	32 Max.	
Power consumption	<4W	
Operating temperature	-40°C~+70°C@5%RH~95%RH	
HMI processor	ARM RISC 528MHz	
Relay and alarm output	Customized alarm and relay control output	

3. Working Process

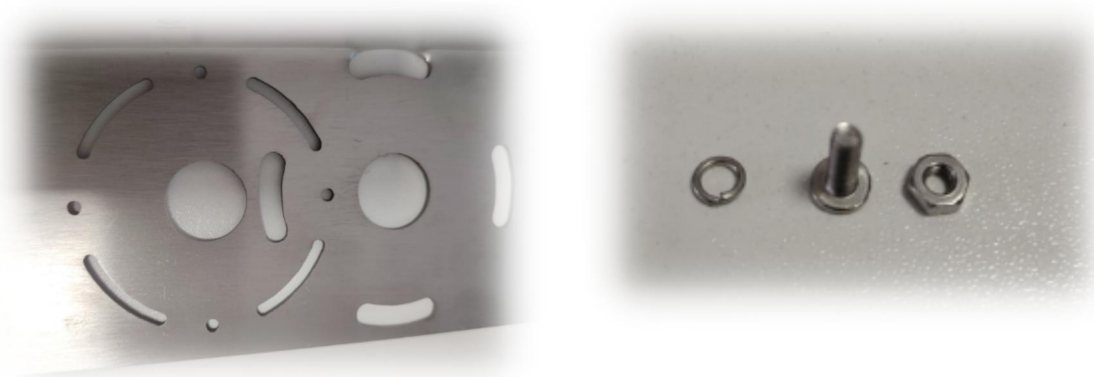
Three-cup wind speed sensor is a common instrument used to measure wind speed, which is mainly composed of shell, wind cup and circuit module. The sensing part is usually composed of three or four conical or hemispherical empty cups, which are fixed on a trident star bracket at 120° each other or a cross bracket at 90° each other, and the concave surface of the cup is arranged in one direction, and the entire transverse arm is fixed on a vertical rotating axis.



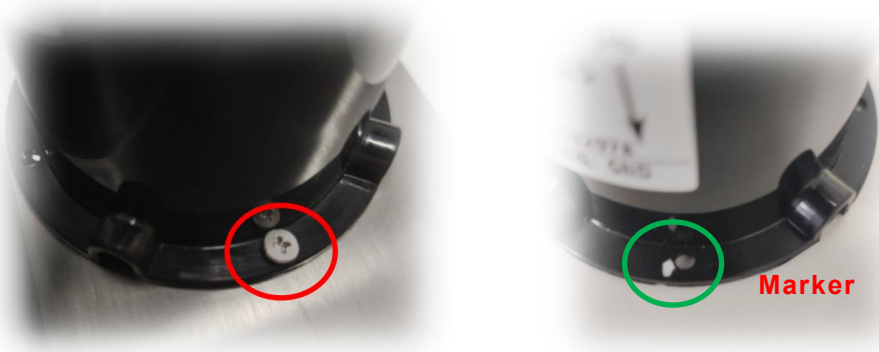
4. Electrical Connections



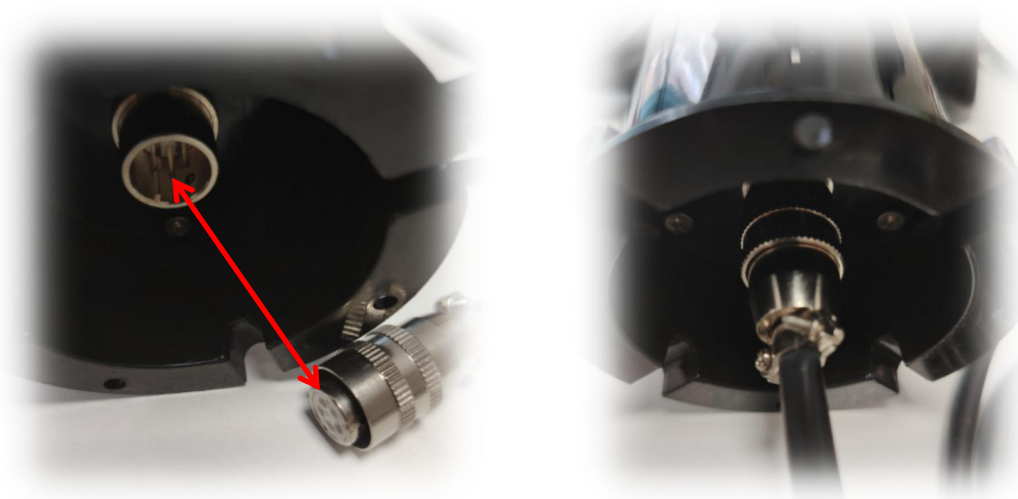
Step 2: Prepare the brackets, [screws(M3), nuts, and gaskets]*4pcs to be installed.



Step 3: Align the screw holes on the wind direction sensor with the holes on the mounting support, and lock the screws(4psc).Please make sure the marker is pointed to the **south** during installation(you can use a compass for positioning).

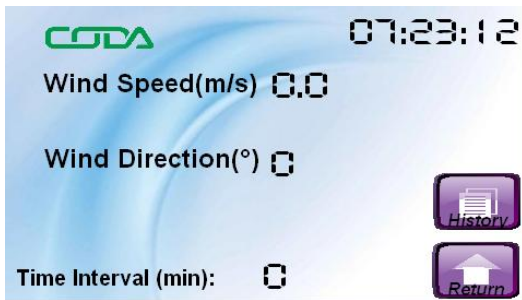


Step 4: Connect the navigation connector to the sensor base connector.



7. Operation Display

Data display

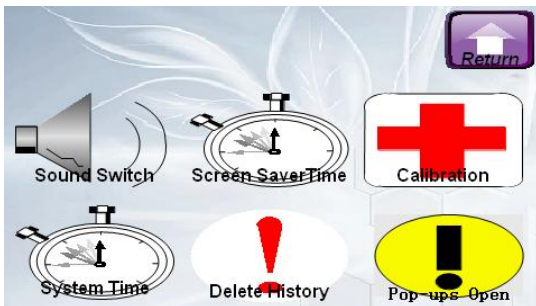


Historical data display

The screenshot shows the historical data display screen. At the top, there are three purple square buttons: a left arrow, a right arrow, and a 'Return' button. Below these buttons is a table with four columns: 'Date', 'Time', 'WS', and 'WD'. The table has five rows, all of which are currently empty.

Date	Time	WS	WD

Setting display



8. Support contacts:



Complies with applicable CE directives.

Manual subject to change without notice. Version 1.0

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