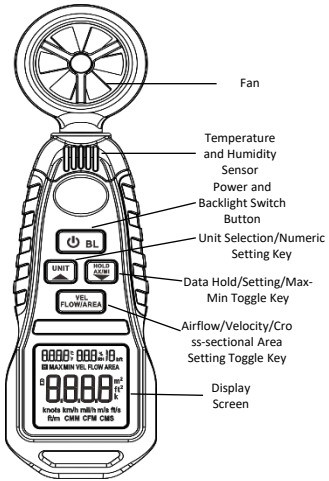
Digital Anemometer User Manual

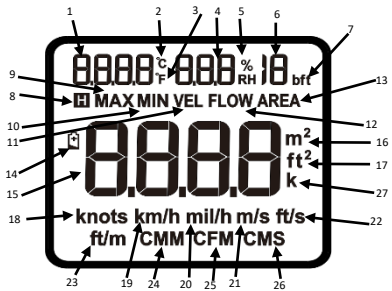


Before use, please carefully read this manual and keep it properly for future reference.

1. Overview

This product is a high-performance digital anemometer using the infrared laser beam and blade cutting method. It can measure wind speed, ambient temperature, and humidity. Additionally, it allows the display of wind speed and airflow measurements in different units. It finds wide applications in environmental monitoring, wind energy assessment, meteorological analysis, industrial, agricultural, environmental protection, highway, airport, port, and various measurement scenarios.

2. Display Interface Instructions



Display Symbol Instruction Reference Table					
Number	Display Symbol	Description	Number	Display Symbol	Description
1	8.8.8.8	Temperature Reading	14		Low Battery Indicator Symbol
2	℃	Celsius Unit	15	8.8.8.8	Wind Speed, Airflow Measurement Values
3	℉	Fahrenheit Unit	16	m²	Square Meters
4	8.8.8	Humidity Reading	17	ft²	Square Feet
5	% RH	Humidity Unit	18	knots	Nautical Miles per Hour
6	18	Wind Force Level	19	km/h	Kilometers per Hour
7	bft	Wind Force Level Unit	20	mil/h	Miles per Hour
8	H	Data Hold Prompt	21	m/s	Meters per Second
9	MAX	Maximum Value Measurement	22	ft/S	Feet per Second
10	MIN	Minimum Value Measurement	23	ft/m	Feet per Minute
11	VEL	Wind Speed Measurement	24	CMM	Cubic Meters per Minute
12	FLOW	Airflow Measurement	25	CFM	Cubic Feet per Minute
13	AREA	Duct Cross-sectional Area Setting	26	CMS	Cubic Meters per Second
			27	k	Counting Units (Thousand)

3. Key Instructions

Power Button: Press and hold for more than 2 seconds to automatically turn the device on or off. In the powered-on state, a short press of this button toggles the backlight on and off.

Wind Speed/Volume Unit Switch Key: In measurement mode, press this key to switch units. In setting mode, press this key to change the set values.

Data Hold Key: Short press to hold or release the current data; long press for more than 2 seconds to enter the maximum and minimum value measurement mode.

Wind Speed/Volume Toggle Key: Short press to switch between wind speed and airflow measurement; long press for more tha 2 seconds to enter the duct cross-sectional area setting mode.

4. Operating Instructions

Wind Speed Measurement:
1. Power on the anemometer by pressing the power button; the anemometer defaults to the 'VEL' measurement mode.
2. Hold the anemometer and align the plane of the fan blade perpendicular to the direction of the airflow for measurement.
3. Read the displayed values on the screen, including wind speed, wind force level, temperature, and humidity.
Note: Press the UNIT button to switch between corresponding units: Knots, km/h, mph, m/s, ft/s, ft/min (6 units in total).

Airflow Measurement:
1. In the VEL mode, press the (VEL) button once to enter the FLOW mode for airflow measurement.
2. Hold the anemometer and align the plane of the fan blade perpendicular to the direction of the airflow for measurement.
3. Read the displayed values on the screen, including airflow, wind force level, temperature, and humidity.

Note: Before measuring airflow, it is necessary to set the duct cross-sectional area; otherwise, airflow measurement cannot be performed. In the airflow measurement mode, press the UNIT button to switch between corresponding units: CMM, CFM, CMS (3 units in total).

Duct Cross-sectional Area Setting:
1. In the powered-on state, long press the (VEL) button for more than 2 seconds to enter the AREA cross-sectional area setting mode.
2. Input the corresponding set value based on the actual cross-sectional area of the measured duct. Press the UNIT button for increasing, press the HOLD button for decreasing, and press the VEL button to move the setting position.
3. After setting is completed, long press the VEL button for more than 2 seconds to exit the setting mode and start FLOW airflow measurement.

Disabling Auto Shutdown:
1. Power on the instrument normally by pressing the power button. The instrument will automatically shut down after 15 minutes of inactivity.
2. After auto power-off, press the power button to restart.
3. Hold down the HOLD button and then press the power button for more than 2 seconds to power on. The instrument will emit 5 beeps, indicating the successful cancellation of the auto shutdown function.

Note: Avoid strong vibrations, and do not touch the fan blades forcefully.

5. Maintenance and Care:

Apart from battery replacement, please refrain from attempting to repair this product or alter its circuits unless you possess the necessary qualifications and have corresponding calibration, performance testing, and maintenance instructions.
1. Do not store or use this product in high-temperature, high-humidity, flammable, explosive, or strong magnetic field environments.
2. Clean the outer casing with a damp cloth and mild detergent. Avoid using corrosive agents or solvents.
3. If not in use for an extended period, remove the batteries to prevent leakage that could corrode the instrument.
4. When the low battery symbol appears, follow these steps to replace the batteries:
   (1) Unscrew the screws securing the battery cover and open the battery door.
   (2) Remove the old batteries and replace them with two new batteries of the same type (pay attention to the battery polarity).
   (3) Close the battery door and tighten the screws.

Technical Specifications	
Display	LCD: 4 digits, maximum display 9999
Screen Size	33X36mm
Sampling Rate	5 times/Sec
Sensor	Infrared laser beam and blade cutting method
Wind Speed Measurement Range	0.4-30.00m/s, Accuracy: ± (2%+2)
Beaufort Wind Force Scale	0-12级
Humidity Measurement	0%-100%RH, Accuracy: ±2%RH
Temperature Measurement	-20.0℃-60.0℃, Accuracy: ±2℃
Measurement Units	Knots,km/h, mil/h,m/s,ft/s,ft/m ; CMM CFM CMS
Resolution	0.01/0.1/1
Additional Parameters	Max value, Min value, Airflow measurement
Data Hold	Lock display reading
Auto Shutdown	15 minutes (auto shutdown function can be canceled)
Power Source	2X 1.5V AAA batteries
Dimensions	177mm*50.15mm*30mm
Weight	85g(excluding batteries)

Limited Warranty and Scope of Rights and Responsibilities

This product is eligible for a one-year warranty service from the date of purchase. However, this warranty does not cover one-time use batteries (once depleted) or damages resulting from accidents, negligence, misuse, modification, contamination, or abnormal operating environments.

This user manual is subject to change without prior notice.
The content of this user manual is considered accurate; if users find errors or omissions, please contact the manufacturer.
The company is not liable for accidents and damages caused by user errors in operation.
The functions described in this user manual should not be used as a justification for using the product for special purposes.