Table of Contents

Table of Contents

1.	Safety information	1
1.1	Preparation	1
1.2	Usage	1
1.3	Marking	1
1.4	Maintenance	2
2.	Description	2
2.1	Part name	
2.2	Button description	5
2.3	Sign definition	5
3.	Specification	7
3.1	General	7
3.2	Technique data	8
4.	Operating guidance	
4.1	Power On/Off	
4.2	Reading hold	
4.3	Backlight function	10
4.4	Wind speed measurement	11
4.5	Wind speed unit selection	
4.6	Area setting	12
4.7	Air volume measurement	12
4.8	Air volume unit selection	
4.9	Replace battery	13
5.	Attachments	

1. Safety Information

Please read carefully the following safety information before usage and maintain this anemometer while using it according to operating guidance, otherwise, the anemometer may be damaged. The anemometer will provide satisfactory services to you if you use and protect it appropriately.

1.1 Preparation

- Please check for damage during transportation after receiving the anemometer.
- ☐ If it should be stored and shipped under hard conditions, please confirm that whether the meter is damaged.

1.2 Usage

- The meter should be used in the range of specified ambient temperature and humidity.
- ☐ If you notice any abnormality or failure, it should stop using.
- Don' t store or use the meter under the conditions of direct sunlight, high temperature and high humidity.
- Don't touch the fan blades with excessive force.
- Don't directly expose the blades in the hard light to avoid reading error.

1.3 Marking

The CE mark indicates compliance with EMC requirements.

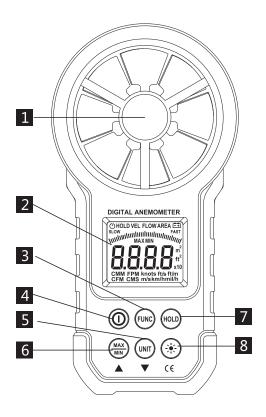
1.4 Maintenance

- Repair or maintenance should be implemented by trained personnel.
- ☐ If there is dust on the fan blade, please blow it with clean air or scrub gently with a damp cloth and mild detergent.
- Clean the meter with a damp cloth and mild detergent. Don't use abrasive material or solvent.
- The meter should be powered off when it is not in use.
- The meter will consume small current, about ≤ 5µA, after shutdown. If the meter is not to be used for a long period, batteries should be removed to prevent damaging the meter.

2. Description

- This meter is a digital anemometer for measuring wind speed, and air volume.
- This meter is a portable, professional measuring instrument with large-screen LCD and backlight, multi-unit switching functions.
- This meter can be used for hand-held measurement.

- This meter has the functions of reading hold, maximum, minimum, etc.
- □ It has a low battery indicator
- 2.1 Part name
- 1 Fan
- 2 LCD
- **3** "**FUNC**" → Function switching button
- 4 "①" → Power switch
- **5** "**UNIT**" → Unit switching button
- 6 Maximum/Minimum button
- **7** "HOLD" hold display, switch temperature mode
- 8 "★" → Backlight



2.2 Button description

• ① Button:

Switch for meter powering on/off.

• 🔅 button

Switch for turning on/off the backlight

HOLD button

Switch for reading retention mode.

FUNC button

It is used for switching among the functions of wind speed measurement, area setting and air volume measurement. Long press for three seconds to enable or disable "Auto Power-Off" function.

MAX/MIN button

Switch maximum/minimum/normal mode, long press to exit

UNIT button

Switch unit, area (m², ft²), Wind speed (m/s, km/h, mil/h, ft/m, ft/s, knots), Air volume (CMS, CMM, CFM).

2.3 Sign definition

O	Indicates Auto Power-Off status
HOLD	Reading hold state
VEL	Wind speed measurement state
FLOW	Air volume measurement state
AREA	Area setting required by air volume

SLOW	The current wind speed less than 5m/s
FAST	The current wind speed greater than 5m/s
MAX	Displays maximum after entering
IVIAA	maximum/minimum mode
MIN	Displays minimum after entering
IAITIA	maximum/minimum mode
m²	Indicates that the current area setting unit is
•••	square meter
ft²	Indicates that the current area setting unit is
11.	square foot
СММ	Cubic meters per minute
CMS	Cubic meters per second
CFM	Cubic meters per minute
knots	Nautical miles per hour, 1850 meters per
KIIOUS	hour
ft/s	Feet per second
ft/m	Feet per minute
m/s	Meters per second
Km/h	Kilometers per hour
mil/h	Nautical miles per hour
-+	Low battery indicator

3. Specification

The meter should be recalibrated under the condition of $18^{\circ}\text{C} \sim 28^{\circ}\text{C}$, relative humidity < 75% every year.

3.1 General

- Work height: Maximum 2000m
- Work mode: Frequency of wind speed conversion
- Display: LCD
- Maximum show value: 9999
- Sampling time: About 0.4s/time.
- Low battery indicator: sign displays on LCD.
- Work power: 1×9V 6F22 battery.
- Operation environment:
 - Relative humidity→ 0~85%RH, no moisture condensation
 - Temperature→ 0°C~40°C, no moisture condensation
- Detector (fan) operation environment:
 - Relative humidity→ 0~95%RH, no moisture condensation.
 - Temperature→ -20°C~80°C, no moisture condensation.

- Storage environment:
 - Relative humidity→ 0~80%RH, no moisture condensation
 - Temperature→ -10°C~50°C, no moisture condensation
- Dimension: Meter →165LX85 WX38Hmm.
- Weight: About 200g

3.2 Technique data

Ambient temperature: 23±5°C, Relative humidity: <75%

3.2.1 m/s

Measuring range	Resolution	Accuracy
0.80 ~ 30.00 m/s	0.01 m/s	±(2.0% reading + 50 characters)
30.00 ~ 40.00 m/s		For reference only

3.2.2 km/h

1.40~108.00 km/h	0.01km/h	±(2.0% reading + 50 characters)
108.0 ~ 144.0 km/h		For reference only

3.2.3 ft/s

1.30 ~ 98.50 ft/s	0.01 ft/s	±(2.0% reading + 50 characters)
98.50 ~ 131.20 ft/s		For reference only

3.2.4 knots

Measuring range	Resolution	Accuracy
0.80 ~ 58.30 knots	0.01 knots	±(2.0% reading + 50 characters)
58.30~77.70 knots		For reference only

3.2.5 mil/h

Measuring range	Resolution	Accuracy
0.90 ~ 67.20 mil/h	0.01mil/h	±(2.0% reading + 5 characters)
67.20~90.00 mil/h		For reference only

3.2.6 ft/m

Measuring range	Resolution	Accuracy
78 ~ 5900 ft/m	1ft/m	±(2.0% reading + 5 characters)
5900 ~ 7874 ft/m		For reference only

3.2.7 Air volume unit

CFM	0- 99990	(Area) 0 - 9.999 ft ²
СММ	0- 99990	(Area) 0 - 9.999 m²
CMS	0 - 9999	(Area) 0 - 9.999 m²

4. Operating guidance

4.1 Power On/Off

Press the " $^{\circ}$ " key to turn on or off the anemometer power.

4.2 Reading hold

In the measurement process, if the reading should be kept, press "HOLD" key to lock the reading, and display the HOLD symbol; press it again to unlock.



In the reading hold state, "FUNC", "MAX/MIN" and "UNIT" keys are invalid.

4.3 Backlight

In the measurement process, if the ambient light is too dark to read, you can press " key to open the backlight. Backlight timer is set to 15 seconds. During this period, you can press " key again to turn off backlight at any time.

■Note

- The luminous body of backlight is LED with large operating current. Frequently using backlight will shorten battery life. Do not use backlight when unnecessary.
- ◆ When the battery voltage ≤ 7V, the " (low battery) symbol will show on the display. However, in the case of using the backlight, if the battery voltage ≥ 7V, the battery voltage drops because of its larger operating current, " symbol may show (when " symbol is showing, the accuracy of the measurement can' t be guaranteed). At this moment, you needn' t replace battery until the " symbol display again under normal use condition without using backlight.

4.4 Wind speed measurement

Place the detector (fan) into the test environment, "VEL" symbol will display on the screen, measurement is done with the fan surface perpendicularly to the wind direction.

■ Note

- ◆ If the detector (fan) is not aiming at the wind direction, which will bring the measurement error.
- For steady wind, the detector (fan) will get maximum reading when it is aiming at the wind direction.

4.5 Wind speed measurement

When using the meter to measure air volume, you can press "**UNIT**" key to select the measurement unit you required (m/s, km/h, mill/h, ft/m, ft/s, knots).

4.6 Area setting

To measure air volume, you should first determine the area of air flue to be, area input steps are shown as following:

- Press "FUNC" key to make "AREA" display on the screen.
- ② Use the "MAX/MIN" and "UNIT" keys to adjust value and unit, after adjusting area unit (m², ft²), then press "MAX/MIN" key. There should be an audible buzz, indicating that area input is completed and settings are saved.
- 3 To change the area setting, please repeat the step 2.

4.7 Air volume measurement

Place the detector (fan) into the test environment. Use the "FUNC" key to set the meter to the Air volume measurement mode; the "FLOW" symbol should display on the screen.

Measurement is done with the fan surface perpendicular to the wind direction.



- ◆ If the detector (fan) is not aligned in the wind direction, the measurement can be skewed.
- ◆ For steady wind, the detector (fan) will get maximum reading when it is aiming at the wind direction.

4.8 Air volume unit selection

When using the meter to measure air volume, you can press the "**UNIT**" key to select the measurement unit your required (CMS, CMM, CFM).

4.9 Replacing battery

- If the " sign appears, this indicates that the battery should be replaced.
- Power off the meter and remove the battery cover.
- Replace the old battery.
- Install the battery cover properly.

5. Attachments

U	Battery	9V, NEDA 1604, 6F22	Tbc
2	Packaging Bag		1рс
a	Operation Manual		1nc