



Model: GM8910

# Multi-Purpose Anemometer Instruction manual



Version GM8910-EN-00

## I. Product introduction

This product is a portable multi-functional anemometer, and it is suitable for measuring temperature, humidity, wind chill, dew point, wind speed, barometric pressure, altitude and illumination.

### Production specification

Measuring item	Measuring range	Resolution	Accuracy	Response time
Temperature	-20.0~60.0°C	0.1°C	±1.0°C	1S
Humidity	0~100.0%RH	0.1%RH	±5%RH	1S
Wind chill	-40.0~10.0°C	0.1°C	±2.0°C	1S
Dew point	-40.0~60.0°C	0.1°C	±2.0°C	1S
Wind speed	0.7~30.0m/s	0.1m/s	±3%or±0.3m/s	1S
Barometric pressure	300~1100hPa	0.1hPa	±1.0hPa	1S
Altitude	-500~9000m	1m	-	1S
Illumination	0~55000Lx	1Lx	±3%	1S
Size	48*21.2*122mm			

Because the measurement of altitude is influenced by barometric pressure and temperature, so the altitude values measured in different seasons and different climates are different; but in the same day and condition that, barometric pressure and temperature slightly vary, the altitude reading is stable, so it can be used for measuring the altitude difference.

## II. Production functions

1. Measuring function: measuring the values of temperature, humidity, wind chill, dew point, wind speed, barometric pressure, altitude and illumination;
2. Data saving function: manually saving and automatically recording data;
3. Unit switching function;
4. Supporting Chinese and English;
5. Adopting a matrix liquid-crystal display screen so that the display content is richer;
6. LCD backlighting display;
7. Battery level display

## III. Component names and button functions

Component names are shown in Figure 1.

- ① Open this cover when measuring illumination, and align to light sources;
- ② Fan blade;
- ③ LCD display screen;
- ④ Button : leftwards/upwards/reduce;
- ⑤ Button : confirm/enter/start;
- ⑥ Button : rightwards/downwards/increase;
- ⑦ Button : switching the switching items of sensor;

- ⑧ Button : unit switch/exit/ backlight switch (on the data display interface of sensor, short press to switch unit, long press to backlight; on the setting interface, short press to exit, long press to backlight);
- ⑨ Button : startup & shutdown;
- ⑩ Battery door;

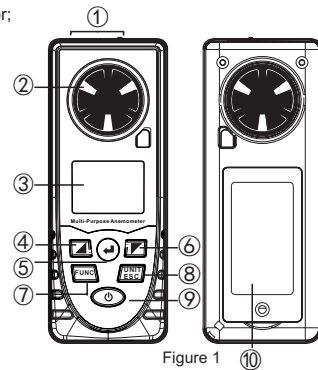


Figure 1

## IV. Main menu interface

Press the button Start to start the anemometer, and then enter the main menu interface after logo image is displayed for 1S. Press the left and right buttons to select items, press the button Confirm to confirm, and then enter the next display interface.

- ① Temperature
- ② Humidity
- ③ Wind chill
- ④ Dew point
- ⑤ Wind speed
- ⑥ Barometric pressure
- ⑦ Altitude
- ⑧ Illumination
- ⑨ Settings
- ⑩ Item name

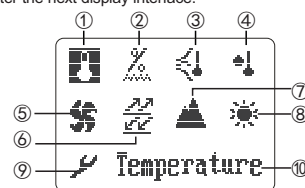


Figure 2

## V. Data display interface of sensor

Data display form of sensor includes two types: character model (Figure 3 and Figure 4) and curve model (Figure 5); in the character model, the data of three sensors can be simultaneously displayed at most (Figure 4), but in the curve model, only the data of one sensor can be displayed. After entering the data display interface of the sensor, press the button Confirm to enter the selection interface of small shortcut icons, later select the corresponding small shortcut icon through the left and right buttons, and then press the button Confirm to realize the corresponding functions.

Interface description in Figure 3 is as follows:

1. Return to main menu
2. Display the maximum value, the minimum value and the average value
3. Setting
4. Switching between curve model and character model
5. Save the data of the current sensor
6. View the saved data
7. Delete the saved data
8. Start the function of automatically recording data
9. n value
10. Battery level
11. Item name
12. Item unit
13. Item icon
14. Item value
15. Item lower-limiting value
16. Indication strip
17. Item upper-limiting value

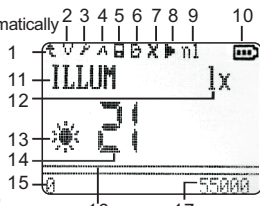


Figure 3

Note: n value has different meanings on different interfaces.

- ◆ In the character model, the n value on the data display interface of the single sensor is always 1.
- ◆ On the data display interface of multiple sensors, n value is the location number of the sensor, if long pressing the switching button, n value can be changed.
- ◆ In the curve model, on the interface, n value is the location number of the current data in the curve chart.

Interface description of Figure 4 is as follows:

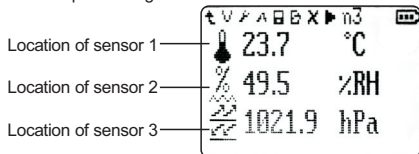


Figure 4

Interface description of Figure 5 is as follows:

- a. The value of the highest point on the current interface
- b. The value of the lowest point on the current interface
- c. The current real-time value measured

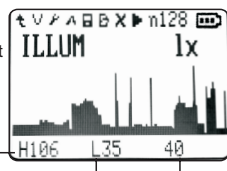


Figure 5

## VI. Setting interface

Select setting in the main menu, or select the small shortcut icon on the data display interface of the sensor to set; and press the button Confirm to enter the setting interface. The selectable setting parameters are as follows in turn: menu model, item model, item number, save data, view data, delete data, shutdown setting, language and restore defaults.

1. Menu model
  - 1) Text menu: the main menu interface is displayed in text form;
  - 2) Graph menu: the main menu interface is displayed in graph form;
2. Item model
  - 1) Character model: the data is displayed in numeric character from on the data display interface of the sensor;
  - 2) Curve model: the data is displayed in histogram from on the data display interface of the sensor;
3. Item number
 

When the item model is the character model, item number is the number of the data of the sensors displayed at the same time.
4. Save data
  - 1) Save the data of the current sensor, maximum to 200 groups;
  - 2) Automatically save
    - a. Time interval: how often automatically save once;
    - b. Save group number: how many number of data saving groups, maximum to 400 groups;
    - c. Display: whether the display screen is opened or closed when the data is automatically saved; if closed, the display screen will be automatically closed and displayed within 5S after the automatically saving function is started if without button operations;
    - d. Startup of automatically saving: after beginning to automatically save data, all the data saved in the memory area will be deleted, and then the current data will be saved; at the moment, except for the function of shutdowns and backlight are effective, other functions are invalid, and other operations are allowed to use after stopping to save the data;
5. View data
  - 1) Memory area 1: the manually saved data is saved here in list form;
  - 2) Memory area 2: the automatically saved data is saved here in graph form;
6. Delete data
  - 1) Memory area 1: delete the corresponding data saved in the memory area 1;
  - 2) Memory area 2: delete the corresponding data saved in memory area 2;
7. Shutdown setting
  - 1) Automatic shutdown: allowed/prohibited;
  - 2) Automatic shutdown time: when automatic shutdown is allowed, the equipment will be automatically shut down within the preset automatic shutdown time without button operations; when the battery level is low, the equipment will be automatically shut down whether the automatic shutdown is allowed or not;
8. Language
  - 1) Chinese;
  - 2) English;
9. Restore defaults

- 1) Confirm: all preset parameters are restored to restore defaults;
- 2) Conceal;

## VII. View the data interface

1. Data interface of memory area 1 (Figure 6)

- ◆ This interface is displayed in list form, the content from left to right is serial number, name logogram, value and unit.
- ◆ Name logograms are correspond as follows: temperature T, humidity H, wind chill WC, dew point DP, wind speed WS, barometric pressure B, altitude A and illumination I; if pressing the switching button, you can select list number and selection number in turn.

NL	name	value	units
8	I	35	lx
9	T	24.5	°C
9	T	76.1	°F
10	H	51.4	%RH
11	DP	13.1	°C
12	WS	0.0	m/s

Select NL 001

Figure 6

2. Data interface of memory area 2 (Figure 7)

This interface is displayed in histogram form. The Max/Min/Avg values on the left upper corner mean the maximum value/the minimum value/average value of all the data saved in the memory area 2, n value on the right upper corner is the serial number of the data point, and if pressing the switching button, you can select Max/Min/Avg and serial number of n value in turn. Reversed histogram. When Max/Min/Avg are highlighted, the maximum value/the minimum value/average value of all the data saved in the whole memory area 2 can be viewed through the left and right buttons; when serial number of n value is highlighted, the serial number of the data point to be viewed can be changed through increase/decrease buttons, after pressing the button Confirm, the data point selected will be displayed on the interface, the indication point below the histogram will move below the corresponding column; when the histogram is highlighted, images can be moved through the left and right buttons. The H value of the last row means the value of the highest point on the current display interface, L value means the value of the lowest point on the current display interface, the last value means the current indicated value, namely the value corresponding to the serial number of n value.

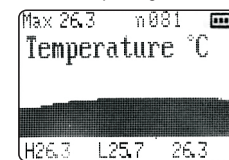


Figure 7

Special statement:  
Our company reserves the right to change the product design and manual content without prior notice.

MADE IN CHINA