



Model:GM8909

# Digital Anemometer Instruction Manual

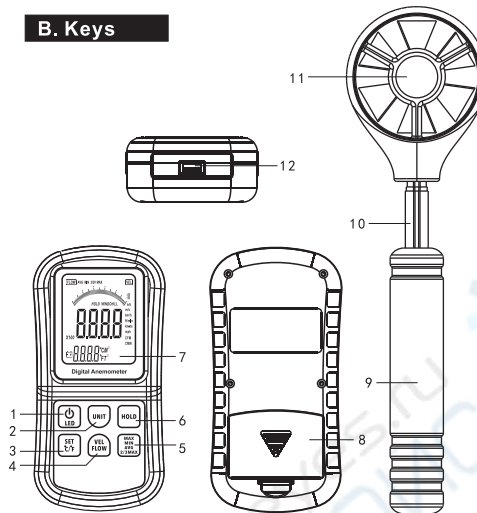


Version: GM8909-EN-00  
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### A. Features

1. Measurement of wind velocity, temperature and flow
2. Selection among max wind speed/min wind speed/average wind speed/current wind speed.
3. Temperature unit selection between °C/°F
4. Inlet area set
5. Selection speed unit among M/S,KM/H,FT/MIN, KNOTS and MPH
6. Reading hold
7. LCD backlight
8. Manual/automatic turning off
9. Beaufort scale
10. Wind chill alert
11. Retractable drag rod
12. Low battery indication

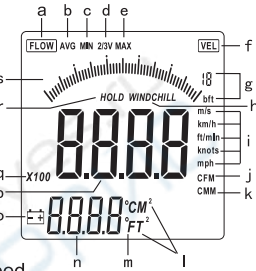
### B. Keys



1. Power on/backlight key
2. Unit switch key for wind speed and wind volume
3. Key for temperature unit switch
4. Switch key between the interfaces of wind speed and wind volume
5. Switch key among max/min/average/2 third of max wind volume
6. Data hold
7. LCD
8. Battery door
9. Slip resistant handle
10. Retractable drag rod
11. Blade
12. Handle socket

### C. LCD

- a. Wind volume icon
- b. Average wind speed / wind volume
- c. Minimum wind speed
- d. 2 third of wind volume
- e. Maximum wind speed
- f. Wind speed icon
- g. Francis Beaufort wind scale
- h. Wind chill alert
- i. Wind speed unit
- j. Cubic feet
- k. Cubic meter
- l. Area unit
- m. Temperature unit
- n. Temperature/area display
- o. Battery volume
- p. wind speed display
- q. 10/100 reading displayed
- r. Data hold
- s. Dynamic indicating bar for wind speed



### D. Operation

#### 1. Preparation before measuring:

Insert the battery properly into the battery door. insert the connecting wire into the socket on the top of the main unit.

#### 2. Power on/off and backlight

Press the Power/LED key to turn on the unit with the backlight on, and the full screen display for 2 seconds to enter into wind speed mode, the readings of temperature and wind speed shows on the LCD, short press on it will turn on the backlight or turn it off, and it will turn off automatically if there is no operation on the key within 1 minute. Long press on the Power/LED key turns off the unit manually.

#### 3. Set up the units of wind speed and wind volume

After power on, press the Unit key to select wind speed unit among m/s, Km/h, Ft/min, Knots and mph in order.

#### 4. Data hold

In measuring, press Hold key to hold the reading measured, and press the Hold key again to return to the measuring mode.

#### 5. Switch between the interfaces of temperature and area setup

Short press on SET °C/°F key is to switch between Celsius degree and Fahrenheit degree, while long press on the key to enter into area setup mode.

#### 6. Switch between wind speed and wind volume

Press VEL FLOW key to switch between the wind speed and wind volume mode and their respective units change correspondently between M/S and CMM.

#### 7. Switching among readings max/min/average/2 third of max wind volume

Press the MAX MIN AVG 2/3MAX key to switch the readings among readings max/min/average/2 third of max wind volume.

#### 8. Steps to set up the area

① Long press on the SET °C/°F key to enter into the area setup mode. The area unit flashes, then short press on HOLD key to select area unit.

② Short press on SET °C/°F key to select the first digit with the first digit flashing, and short press on the HOLD key to increase the number and the number returns to zero if the input is over 9. After the desired value is selected short press on SET °C/°F key to confirm and repeat the above steps to set up the second, the third and the fourth digits.

③ Short press on MAX MIN AVG 2/3MAX key is to select the decimal point position.

④ Long press the SET °C/°F key to exit the area setup mode.

⑤ In wind volume measuring, the area set appears and the temperature reading appears in wind speed measuring.

#### 9. Switch among max/min/average/2 third of max wind volume

After powering on, and blade rotates with the default value at current wind speed, short press on the MAX MIN AVG 2/3MAX key to select among max/min/average/2 third of max wind volume.

#### 10. Sampling for average wind speed

Take the average value after sampling 21 times at an interval of 0.3 seconds.

#### 11. Wind chill alert

In measuring, when the temperature is under 0 °C the wind chill icon appears on LCD.

#### 12. Retractable drag rod

The rod can be dragged longer as much as 553mm for long distance measuring.

#### 13. Wind speed dynamic indicating bar

This bar varies with the wind speed in normal measuring but does not vary in case the wind speed is above Beaufort scale 10.

### E. Specification

A. Wind flow range			
Unit	Range	Resolution	Area
CFM (FT <sup>3</sup> /MIN)	0~999900	0. 1~100	0. 001~9999
CMM (M <sup>3</sup> /MIN)	0~999900	0. 1~100	0. 001~9999

B. Wind Velocity Range				
Unit	Wind Velocity	Resolution	Thre shold	Accuracy
m/s	0~45	0.1	0.3	±3% ±0.1dgts
ft/min	0~8800	19	60	±3% ±0.1dgts
knots	0~88	0.2	0.6	±3% ±0.1dgts
km/h	0~140	0.3	1	±3% ±0.1dgts
mph	0~100	0.2	0.7	±3% ±0.1dgts

C. Wind Temperature			
Unit	Scale	Resolution	Accuracy
°C	0~45	0. 2	±2
°F	32~113	0. 36	±3. 6

Power supply	3*1. 5V AAA Batteries
Operating temperature	0°C~+45°C(32°F~113°F)
Operating humidity	40%RH~85%RH
Store temperature	-10°C~+50°C(-14°F~122°F)
Store humidity	10%RH~90%RH

Specific Declarations:  
Our company shall hold no any responsibility resulting from using output from this product as an direct or indirect evidence.  
We reserves the right to modify product design and specification without notice.

