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MODEL: GM8903

## HOT WIRE ANEMOMETER INSTRUCTION MANUAL

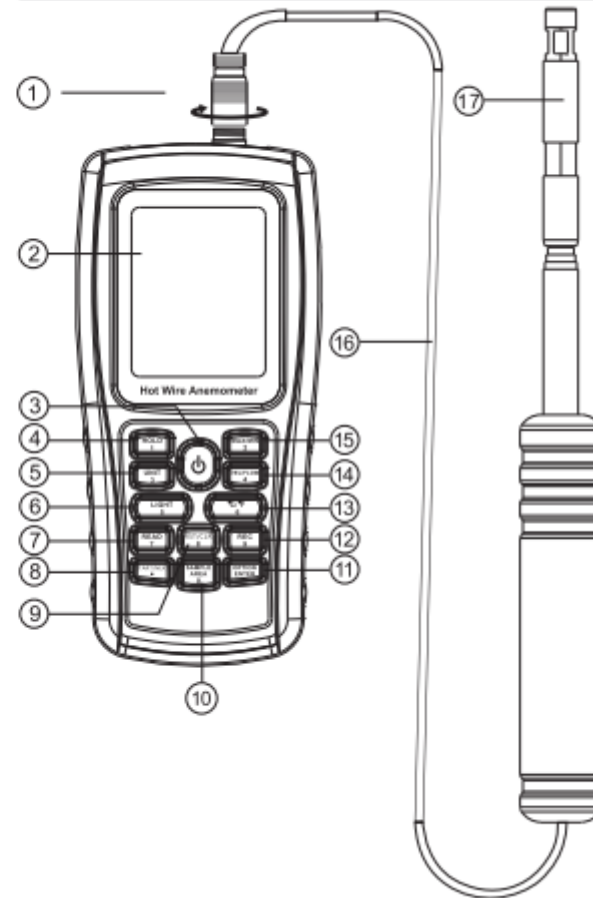















📍 Tehran, Tehransar

## Features

- Measurement of wind velocity, temperature and flow
- Unit conversion of wind velocity, temperature and flow
- Measurement of maximum and minimum wind velocity
- Measurement of 2/3 Vmax and average wind flow
- Data holding, storing and deleting function
- Low battery indicating function
- It turns off automatically within 10 minutes if there is no further operation. it will not turn off automatically if there is powered by USB source.
- Memory of 350 records
- Backlight
- Connecting to PC with USB cable
- Audio key pressing alert
- Large LCD display

## Diagram of the unit



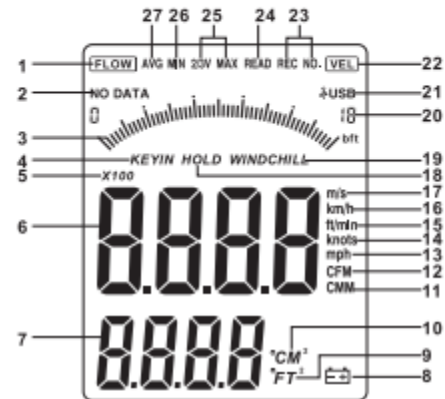
- 1). Connector (With direction indicator)
- 2). LCD display
- 3).  : ON/ OFF key
- 4).  :Data holding key
- 5).  :Unit transform key
- 6).  :Backlight on/off key
- 7).  :Data read key
- 8).  :Measuring key for average value of wind flow
- 9).  :Reset key in READ mode/clear recorded
- 10).  :Duct area input and sampling time setting key
- 11).  :Wind flow AVG 2/3 MAX and figure input
- 12).  :Data record key
- 13).  :Temperature unit switch
- 14).  :Wind velocity/flow transform key
- 15).  :Max/Min value switch
- 16). Connecting wire
- 17). Probe









**NOTE:**

Aforesaid key function descriptions is brief introduction.  
pls read operation instructions parts for details.

## LCD Display



1.  : Air flow symbol
2.  : No data store symbol
3. Dynamic indicator bar of velocity or air flow
4.  : Enter duct area values symbol
5.  : Air multiplier
6. Wind velocity and air flow display area
7. Duct area display area/Wind temperature display
8.  : Low battery icon
9.  : Indicating duct area in square feet when in flow function ; °F is used to indicate wind temperature in metric;

10. **°CM<sup>2</sup>** : Indicating duct area in square meter in flow function, "°C " is used to indicate wind temperature in metric.
11. **CMM** : Wind flow unit (cube meter / minute)
12. **CFM** : Wind flow unit (cube foot / minute)
13. **mph** : Wind velocity unit (mile / hour)
14. **knots** : Wind velocity unit (sea mile / hour)
15. **ft/min** : Wind velocity unit (foot / minute)
16. **km/h** : Wind velocity unit (kilometer / hour)
17. **m/s** : Wind velocity unit (meter / second)
18. **m/s** : Data hold
19. **HOLD** : Chill index
20. **WINDCHILL** : Data-sampling interval recorded
21. **USB** : When connecting PC with USB cable, this symbol appears
22. **VEL** : Wind velocity symbol
23. **REC NO.** : Recording the using number and signals
24. **2/3V MAX** : Read stored data symbol
25. **READ** : 2/3 of maximum value measurement (one of the wind flow measuring method)
26. **MIN** : Showing minimum values
27. **AVG** : When measuring average values (one of the wind flow measuring Method) this symbol appears.

## Specifications

### 1. Wind Velocity Range :

Unit	Wind Velocity	Resolution	Lowest Point of start value	Accuracy
m/s	0.0-30.0	0.001	0.3	±3%±0.1
Ft/min	0.0-5860	0.01/0.1/1	60	±3%±20
Knots	0.0-55.0	0.01/0.01	0.6	±3%±0.2
Km/h	0.0-90.0	0.001	1.0	±3%±0.4
Mph	0.0-65	0.001/0.01	0.7	±3%±0.2

### 2. Wind flow range :

CMM: 0-999900m<sup>3</sup> /min

CFM: 0-999900 ft<sup>3</sup> /min

Unit	Range	Resolution	Area
CFM(FT <sup>3</sup> /MIN)	0-999900	0.001-100	0.001-9999
CMM(M <sup>3</sup> /MIN)	0-999900	0.001-100	0.001-9999

### 3. Unit Conversatin :

	m/s	Ft/min	Knots	Km/h	Mph
1m/s	1	196.87	1.944	3.60	2.24
1ft/min	0.00508	1	0.00987	0.01829	0.01138
1knots	0.5144	101.27	1	1.8519	1.1523
1km/h	0.2778	54.69	0.54	1	0.6222
1mph	0.4464	87.89	0.8679	1.6071	1

### 4. Air Temperature Range :

Wind Temperature

Unit	Scale	Resolution	Accuracy
°C	0.0-45.0	0.1	±1.0°C
°F	32.0-113.0	0.1	±1.8°F