8 in 1 Digital Anemometer

User Manual

Features:

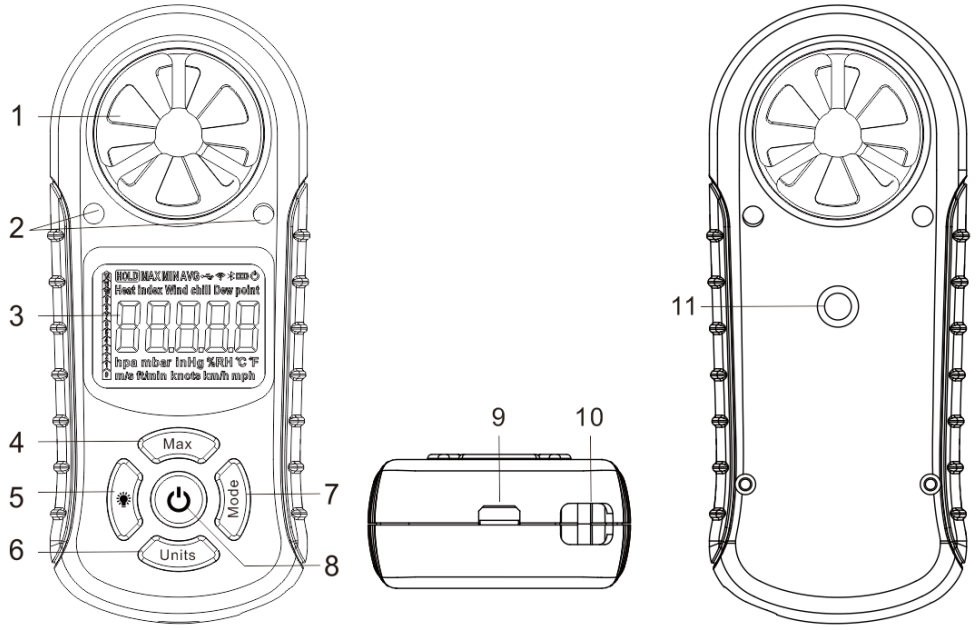
- Air Velocity Measurement Range
- Temperature Measurement Range
- Humidity Measurement Range
- Air Velocity Unit Selection: m/s, ft/min, knots, km/h, mph
- Wind Chill
- Heat Index
- Dew Point
- Barometric Pressure
- Altitude (Relative & Absolute/Density)
- LCD with White Backlight
- Beaufort scale
- °C / °F selection
- Max/Min/Avg Reading Selection
- Hold Function
- Air Velocity Unit Selection: m/s, ft/min, knots, km/h, mph
- Low Battery Warning
- Rechargable battery
- Auto Power Off (with override function)
- Calibration Function ***Use with caution, please read the instructions carefully****
- Resolution: 0.1m/s, 0.1%,0.1℃
- CE Certified & RoHS Compliant

Specifications:

Measurement	Units	Range	Resolution	Accuracy
Wind speed	m/s	0 to 30	0.1	±5%
	ft/min	0 to 5860	19	
	knots	0 to 55	0.2	
	km/h	0 to 90	0.3	
	mph	0 to 65	0.2	

Wind chill	ºC	0 to 30m/s, -45 to 10	0.1	1
	ºF	0 to 65 mph, -49 to 50	0.1	1.8
Temperature	ºC	-29 to 70	0.1	±0.3(10 to 55℃)
	ºF	-20 to 158	0.1	1.8
Relative humidity	%RH	0 to 100	0.1	±3%
Heat index	ºC	0 to 100%RH,21.1 to 54.4	0.1	2
	ºF	0 to 100%RH,70 to 130	0.1	3.6
Dew point	ºC	-29 to 70	0.1	2
	ºF	-20 to 158	0.1	3.6
Barometric pressure	hpa	10 to 1100	0.1	1.5
	mbar	10 to 1100	0.1	1.5
	inHg	0.29 to 32.48	0.01	0.05
Altitude	m	-700 to 9000	1	12
	ft	-6000 to 30000	3	50
Operation temperature	0 to 50ºC(32 to 122ºF)			
Operation humidity	10 to 90%RH			
Storage temperature	-10 to 60ºC(14 to 140ºF)			
Storage humidity	10 to 75%RH			
Size	110*45*20mm			
Weight	70g			

Product description:



1. Vane Impeller
2. Temperature & Humidity Sensors
3. LCD with White Backlight
4. **Max** Button
5. **Backlight** Button
6. **Units** Button
7.**Mode** Button
8.**Power** Button
9. Charging socket
10. Lanyard Attachment Point
11. Tripod mounting thread

Operation:

1. Turning On and Off your Meter

a.Shot-press this button to turn on the meter
b.Long-press this button to turn off the meter
c.Power off mode, hold **Units Button**,then press **Power Button**to initialize settings
d.Power off mode,hold **Backlight Button**,then press **Power Button** to close auto off function
e.Power off mode,hold **Mode Button**,then press **Power Button** to enter calibration mode
f.Auto-power off time is 5 minutes

2. Max/Min/Avg Value Measurement Function

In any measurement mode quickly press the **MaxButton** to choose Maximum Reading, a second press will display the Minimum Reading, a third press will display the Average reading and a forth

press will return the meter to the standard current readings.

Max: When is this mode the meter will display the maximum value reached

Min: When is this mode the meter will display the minimum value reached

AVG: When is this mode the meter will display the average value reached

Once the meter is switched on it will start to record the Max/Min/Avg values

3. Units Switch Function

In any measurement mode quickly press the **Units Button** to change the measurement units displayed. i.e. ºC or ºF units display.

4.Hold Function

Press the **Backlight Button** over 2 seconds to freeze current readings displayed.

Press this button over 2 seconds again to exit this mode.

****NOTE: In Altitude Mode press Units Button for over 2 seconds switch to Relative Altitude Mode (See Mode 8). There is not hold function in the Altitude Mode****

5. Switching Operating Modes

Press**Mode button** to change the required mode.

Wind Speed -> Wind Chill ->Temperature ->Relative Humidity -> Heat Index -> Dew Point -> Barometric Pressure -> Pressure Altitude

6. Backlight function

Press **Set button** to turn on/off the backlight.

7.Beaufort scale

The Beaufort scale is always displayed according to current wind speed in all modes

Operating mode introduction

Press **ModeButton** to change the display modes:

Wind Speed -> Wind Chill ->Temperature ->Relative Humidity -> Heat Index -> Dew Point -> Barometric Pressure -> Pressure Altitude

Mode 1: Wind speed

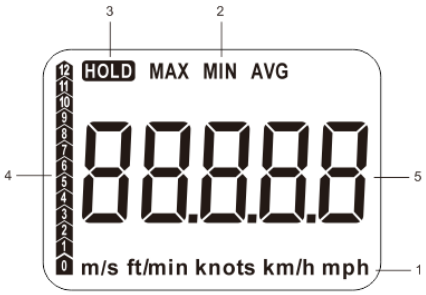
1. Wind Speed Units: **m/s, ft/min, knots, km/h, mph**

2. Max/Min/Avg Wind Speed Reading Display

3. Hold Current Wind Speed Reading

4. Beaufort Scale

5. Wind Speed Readout



Wind Speed Full Display

Mode 2: Wind chill

Wind chill means the effect that air temperature combined with wind speed has on human skin or an object.

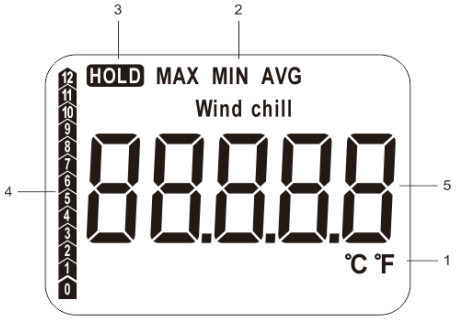
1. Wind Chill Units: ºC or ºF

2. Max/Min/Avg wind chill reading display

3. Hold Current Wind Chill Reading

4. Beaufort Scale

5. Wind Chill Readout



Wind Chill Full Display

Mode 3: Temperature

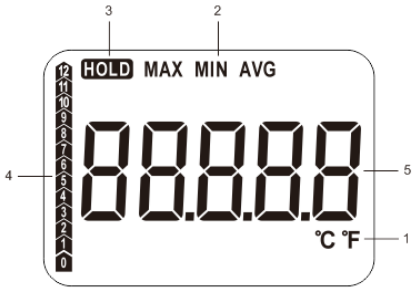
1. Temperature Units: ºC or ºF

2. Max/Min/Avg Temperature Reading Display

3. Hold Current Temperature Reading

4. Beaufort Scale

5. Temperature Readout



Temperature Full Display

Mode 4: Relative Humidity

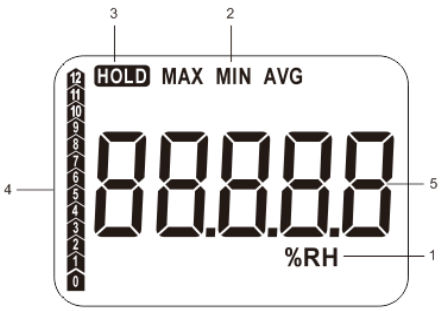
1. Relative Humidity Units: %RH

2. Max/Min/Avg Relative Humidity Reading Display

3. Hold Current Relative Humidity Reading

4. Beaufort Scale

5. Relative Humidity Readout



Relative Humidity Full Display

Mode 5: Heat index

The heat index also known as apparent temperature is what the temperature feels like to the human body when relative humidity is compared with air temperature. The heat index is higher than the normal air temperature unless out of range.

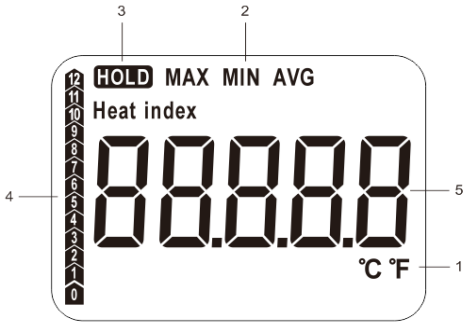
1. Heat Index Units: ºC or ºF

2. Max/Min/Avg Heat Index Reading Display

3. Hold Current Heat Index Reading

4. Beaufort Scale

5. Heat Index Readout



Heat Index Full Display

Mode 6: Dew point temperature

Dew point temperature means the temperature at which air becomes saturated with moisture.

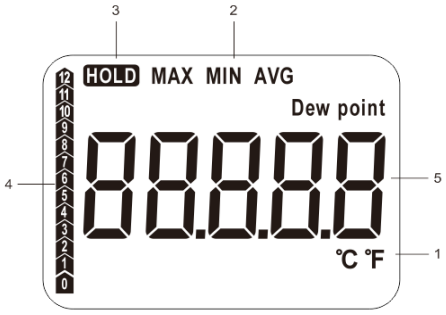
1. Dew Point Temperature Units: ºC or ºF

2. Max/Min/Avg Dew Point Temperature Reading Display

3. Hold Current Dew Point Temperature Reading

4. Beaufort Scale

5. Dew Point Temperature Readout



Dew Point Temperature Full Display

Mode 7: Barometric pressure

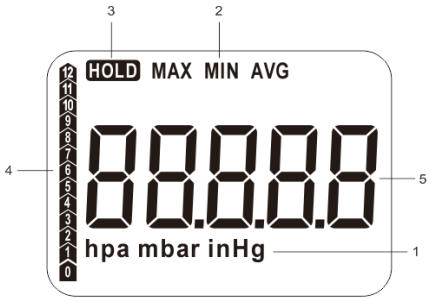
1. Barometric Pressure Units: hpa, mbar, inHg

2. Max/Min/Avg Barometric Pressure Reading Display

3. Hold Current Barometric Pressure Reading

4. Beaufort Scale

5. Barometric Pressure Readout



Barometric Pressure Full Display

Mode 8: Pressure Altitude (Absolute/Density & Relative Altitude)

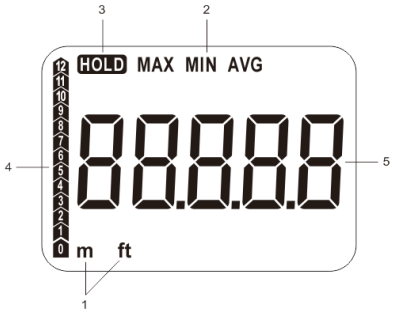
1. Altitude Units: m, ft (Meters or Feet)

2. Max/Min/Avg Altitude Reading Display

3. Hold Current Altitude Reading

4. Beaufort Scale

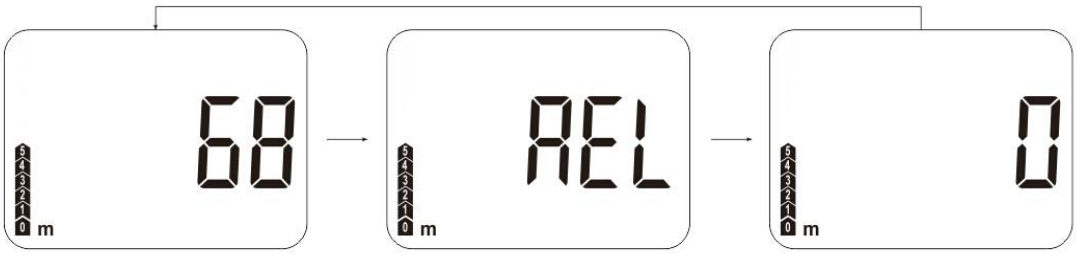
5. Altitude Readout



Altitude Full Display

Relative Altitude Measurement:

This Mode is able to display relative altitude (also referred to as climb or ascent/descent). Relative altitude allows you to measure changes in altitude from the point where you enter "Relative Altitude" mode. To enter this mode, press the **Units button** until you get to altitude, **then press and hold the Units button for five seconds**. The LCD will first display **REL** and then set the altitude to zero. From then on, the altitude reading will display the difference between your newly set zero reference altitude and your current position. To change back to Pressure Altitude, **press and hold the Units button again for five seconds.**



Density Altitude Display

Relative Altitude Display

Calibration function:

NOTE: DO NOT ATTEMPT TO CALIBRATE WIND SPEED UNLESS YOU

HAVE ACCESS TO A CALIBRATION SOURCE FOR AIR FLOW!

Your anemometer was calibrated at the factory. But you can recalibrate it if you want by following these steps:

Step 1: To enter calibration mode, hold the**Mode button** down while turning on the anemometer.

Step 2: Use the table below to find the parameter to calibrate. Press the **Max button/↑,Units Button/**↓to the corresponding number you wish to select. Now press the Power button to begin calibration.

Number	**Calibration Function Mode**
1	Wind Speed
2	Temperature
3	Relative Humidity
4	Barometric Pressure
5	Absolute (Density) Altitude
6	Defaults

Step 3: Press the Backlight butto/n← and Mode button/→ to choose the digit you wish to change (the selected digit will flash). Use the Max button/↑ and Units button/↓ to change the value.

Step 4: Press the Power button for more than 2 seconds to store the new value and to exit calibration mode.

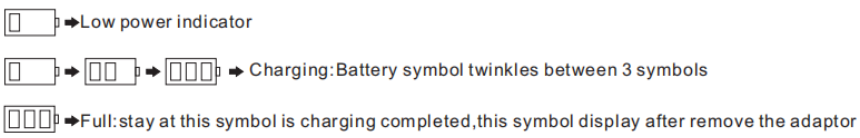
Calibrating Barometric Pressure

To calibrate barometric pressure use a reliable instrument or trusted source for barometric and altitude readings for your local area.

Battery Replacement:

If the meter does not power on as usual or the low battery icon  s on the LCD, Use the adaptor and USB line thought the charging socket to supply power for the battery.

The Input voltage and current:5V/100mA



DO NOT DISPOSE OF IN YOUR BIN!

Caution:

1.This meter is accurate at low and mid-range air speeds. Consistent use at very high speeds, i.e. from the window of a fast moving car will damage the impeller's bearing and reduce accuracy.

2. This meter is not a personal safety device.

Trouble Shooting:

1. The Meter is displaying the wrong readings

Enter the calibration mode and correct using a known trusted source such as a reputable internet source for Barometric and Altitude Readings. Or a known accurate stable air flow will need passing through the meter vane in working mode (an accredited wind flow tunnel is strongly recommended), to assist in calibrating the wind speed.

2For all other issues please contact your supplier.

Warranty:

This meter has a one year warranty for a period of one year from date of purchase.

This warranty covers normal operation and does not cover batteries (including leaks), misuse, abuse, alteration, tampering, neglect, improper maintenance or improper calibration. Nor can the warranty be used as an excuse for a false claim simply because you have changed your mind after the initial 14 day period.

Proof of purchase is required for warranty repairs.