TEMPERATURE AND VANE ANEMOMETER

CE

Users Manual

■. Introduction

Thank you for purchasing the temperature and vane anemometer from us. Please take a few minutes to browse through this user manual before you begin to operate the meter to ensure that you are fully familiarized with how best to operate the meter as accurately and safely as possible.

This meter is a flow/temperature measuring instrument. It is normally used to measure the air speed at ventilation outlets. In addition to the measurement of temperature, climatic conditions can also be analysed.

1.1 Precautions safety measures

To get the best service from this meter, please read this user's manual carefully and observe the detailed safety precautions strictly.

1.1.1 During use

1. If the OL symbol will show on the LCD, it means the readings is outside the measuring range. Please keep to the permitted measuring range.

2. Never store the product together with solvents, acides or other aggressive substances.

3. When the battery voltage is under proper operation requirement, the $\boxed{\mathrm{d}}$ symbol will show on the LCD and the battery needs to be replaced with new.

1.1.2 Maintaining the product

- Don't measure at a high temperature, high humidity places.

- To guarantee correct readings: position instrument so that flow impacts at the rear.

- When not using the instrument for a long time, please remove the battery and avoid storing in high temperature and high humidity.
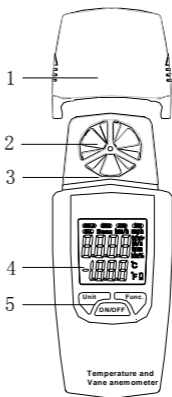
■. Features

1. Display: the top display line always shows the Velocity, the bottom display line always show the temperature.

2. Parameters：m/s km/h fpm mph kts Beaufort ℃ ℉

3. Resolution: 0.1m/s 1fpm；

               0.1℃ 0.1℉；

4. Range: 0.4 ~ 20m/s, 80 ~ 4000fpm

            -10 ~ 50℃ 14 ~ 122℉

5. Accuracy:

   ± (2% of reading + 0.5m/s)

   ± (2% of reading + 100fpm)

   ±1℃ ±1.8℉

6. Sample rate: 2 time /sec

7. Auto power off: about 20 minutes

8. Low battery indicator

9. Operating environment:

  -10℃ ~ 50 ℃(14℉~122℉)，0 ~ 80%RH

10.   Storage environment:

  -20℃ ~ 60℃(-4℉~140℉)，0 ~ 80%RH

11. Dimension and Weight:

  157(L) x60(W) x30(H) mm, about 180g

12. Accessories:

  DC1.5V (AAA)   x 3pcs   String   x 1pcs
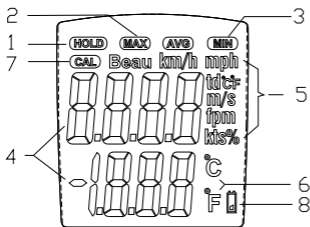
  Plastic box   x 1pcs   Users manual   x 1pcs

■. Names of parts

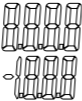● **Instrument Familiarization**

1. Sensor cover
2. Vane sensor
3. Temperature sensor
4. LCD display
5. Function key

● **LCD Display**

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The meaning of the symbols represented by the following table

Number of Order	Symbol	Functions
1	(HOLD)	Indicating it is now in the data-holding mode
2	(MAX)	Indicating the display value being the maximum value(MAX)
3	(MIN)	Indicating the display value being the minimum value(MIN)
4	8888 / 1888	Measure values
5	Beau kts mph m/s km/h fpm	Velocity unit
6	℃ ℉	Temperature unit

| **7** | (CAL) | Indication to the calibration mode |
| **8** | ▯ | Indication low power of batteries. Batteries should be replaced. |

■. Operation instruction

1. Please install new batteries on the meter.

2. Press the **ON/OFF** key to turn the power on.

3. Put the meter on the environment to be measured and make the vane sensor upright to the wind direction for measurement.

4. When the reading has been stable, read the value.

* If you still need more operations, please see the description of keys instruction.

NOTE:

If the vane sensor is not aimed at the wind direction, it will bring error to the measurement.
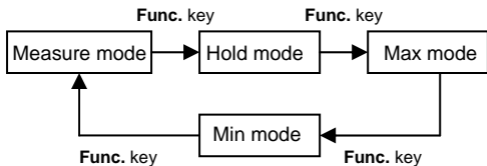
■. Keys instruction

1. **ON/OFF** key

Press the key to turn the power ON and press the key once more to turn the power OFF.

2. Func. key

1) Press the key can select the state of MAX、MIN、HOLD.

The cycle of views shows as following figure:

```
          Func. key          Func. key
Measure mode ──→ Hold mode ──→ Max mode

                 Min mode ←──
          Func. key          Func. key
```

- Hold mode: Reading are held.
- Max mode: Maximum values since the instrument was last switched on or last reset.
- Min mode: Minimum values since the instrument was last switched on or last reset.

2) Back light control

Press and hold the **FUNC.** key >1sec. The back light will be turned on, Press and hold the key once

>1sec. the light will be turned off. If the back light is not closed within 60 seconds, it will be turned off automatically.

3. Unit key

1) **Unit** set

- Velocity unit.
  Press **Unit** key <1sec. can change the Velocity unit. (m/s, km/s, fpm, mph, kts, Beaufort scale)
- Temperature unit
  Press and hold the **Unit** key >1sec. can change the Temperature unit. (℃,℉)

2) Auto power off

When the meter is powered on, it is under auto power off mode. The meter will power itself off after 20 minutes if no key operation.

Cancelled auto power off function: Press and hold the **ON/OFF** key until the LCD display **AP ON**, .press **Unit** key to select **AP ON** or **AP OFF**, then press the **Func.** key to confirm the setting.

AP ON ----- Auto power off availability.

AP OFF --- Auto power off unavailability.

■. Maintenance

1. CLEANING INSTRUCTIONS

The meter may be wiped down with a wet sponge or cloth using a mild water based detergent or anti-bacterial soap and rinsed under a gentle stream of cold water.

NOTE:

This unit is not designed for complete submersion or washing in water.

2. BATTERY REPLACEMENT

Use the following procedure:

When the battery voltage drop below proper operation range the symbol will appear on the LCD display and the battery need to be replaced.

t Press the battery cover and towards arrowhead direction to open the battery cover.

t Replace the battery with three new 1.5V batteries (AAA).

t Replace the battery cover.