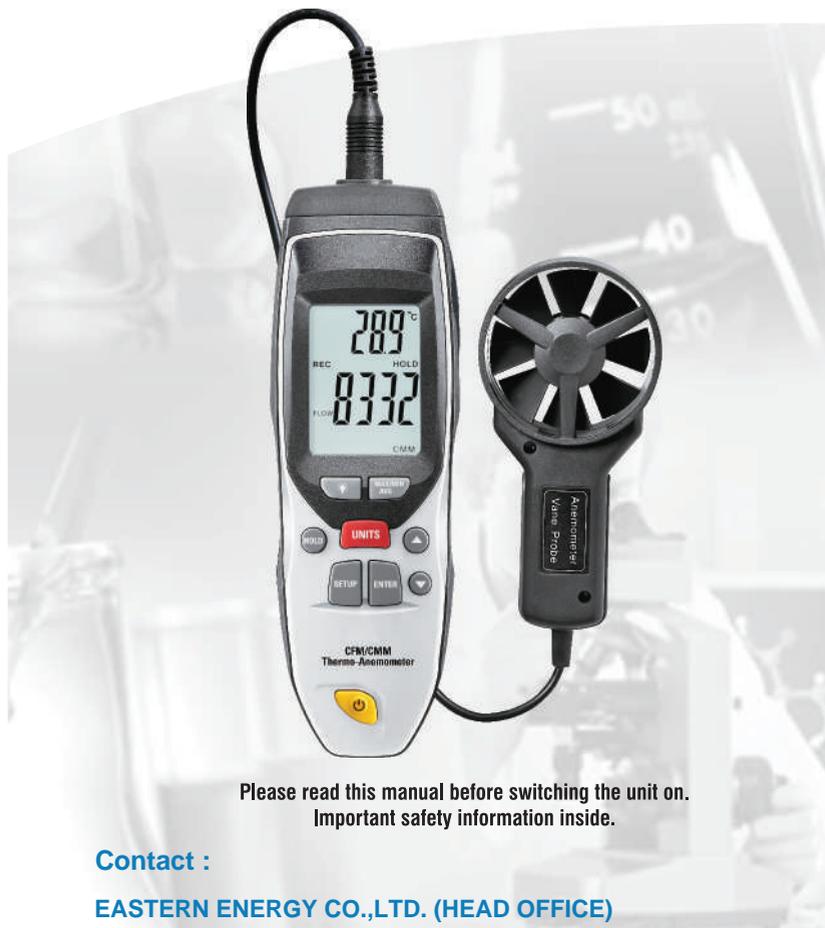


# THERMO-ANEMOMETER

## User's Manual



Please read this manual before switching the unit on.  
Important safety information inside.

**Contact :**

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## **1.Introduction**

This portable Thermo-Anemometer is applied for measuring Air Velocity with impeller-type air velocity sensor. With good advantage in high accuracy, portable design and easy operation.

## **2.Characteristics**

- Clear & distinct LCD screen
- The MAX air velocity is up to 30m/s, easy to transfer different units and corresponding value.
- Display MAX/MIN/AVG air velocity ( Average value based on 20 times measurements)
- Low battery indication
- Data Hold function
- Backlight function
- Simple and easy to operate
- Exchangeable impeller-type sensor, portable to carry
- Auto-off function. To conserve battery life, the meter automatically turns off after 15 minutes.
- Thermo-Anemometer can measure air velocity, current temperature & humidity.

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### 3.Specification

- Air Velocity Specification

Air Velocity	Range	Accuracy
m/s	0.40~30.00	±3%±0.20m/s
ft/min ( feet per min)	80~5900	±3%±40ft/min
km/h(kilometers per hour)	1.4~108.0	±3%±0.8km/h
MPH(miles per hour)	0.9~67.0	±3%±0.4MPH
Knots(nautical miles per hour)	0.8~58.0	±3%±0.4Knots

- Temperature & Humidity Specification

Air Temperature	-10~60°C	±2.0°C(±4.0°F)
Relative Humidity	0%~100%	±3.5%
Air Flow	Range	Area
CFM	0~999900	0~999.9ft <sup>2</sup>
CMM	0~999900	0~999.10m <sup>2</sup>

- Resolution: 0.01m/s
- Shut down data hold
- Auto power off after 15- minute non-operation
- Low battery indication
- Backlight
- Battery: Standard 9V battery
- LCD display 0.00 after removing sensor

### Contact :

#### EASTERN ENERGY CO.,LTD. (HEAD OFFICE)

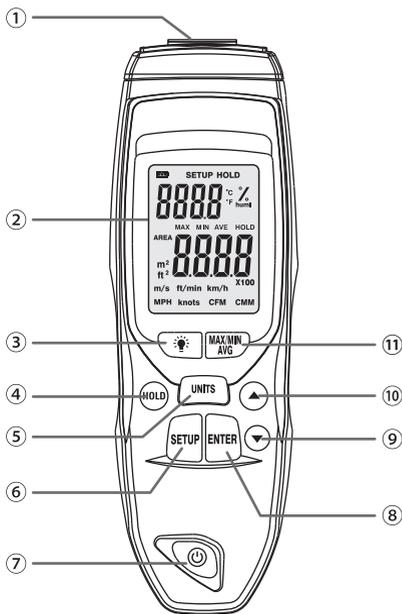
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## 4. Meter Description

- ①-Entrance of impeller-type air velocity sensor
- ②-LCD
- ③-Backlight Button
- ④-Data Hold Button
- ⑤-Unit transfer Button
- ⑥-Setup Button
- ⑦-Power ON/OFF Button
- ⑧-Enter Button
- ⑨-Down Button
- ⑩-Up Button
- ⑪-MAX/MIN/AVG Button



## 5.LCD Description

1-Low battery symbol; Low battery symbol has three grids display for battery;

Three grids means full power. Zero grid means out of power.

2-Setup symbol; When SETUP symbol lights up, it means that meter enter setting mode.

3-Data Hold symbol for current measured temperature & humidity value

4-°C symbol

5-Humidity symbol

6-°F symbol

7-Average value symbol

8-Data Hold symbol of current measured air velocity value

9-Current air velocity value

10-Multiply symbol; 10 times / 100 times

11-Air volume (Count as m<sup>3</sup>)

12-Km/h symbol

13-Air volume (Count as ft<sup>3</sup>)

14-Knots symbol

15-ft/min symbol

16-Mile/hr symbol

17-M/s symbol

18-Ft<sup>2</sup> symbol

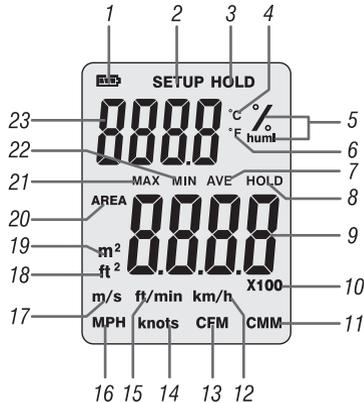
19-m<sup>2</sup> symbol

20-Setup symbol for area of air flow

21-Max value symbol

22-Min value symbol

23-Temperature & Humidity value symbol



## 6. Operation Instruction

### • Air velocity measurement

1. Insert impeller-type air velocity sensor, press POWER button. (Order of operation is no affected.)
2. The current measured value of air velocity will be displayed on LCD.
3. When the air velocity changes, it take a few seconds to stabilize the reading.

### • Temperature & Humidity measurement

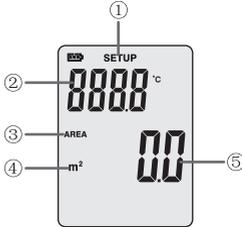
1. Insert Temperature & Humidity probe
2. The current measured value of temperature & humidity will be displayed on LCD.
3. When the temperature/humidity changes, take a few seconds to stabilize the reading.

### • Instruction

-  : Power ON/OFF Button
-  : Backlight Button
-  : MAX/MIN/AVG Button
-  : Data HOLD Button. Hold the data of current air velocity & temperature & humidity value.
-  : Unit Button. Press the button to change the unit of measurement. The value of current air velocity will change with change of unit. CFM & CMM is relative with the area of air flow. Users can set the area of air flow in setting interface.
-  : Setup Button. Enter setting interface by pressing this button to set area of air flow, or choose temperature or humidity measurement.
-  : Enter Button. Press this button to confirm in setting interface to save and exit.
-  : Up Button
-  : Down Button

### • Setting Interface

1. Press SETUP button first in measure interface, enter setup interface of setting of area of air flow.



- ① SETUP symbol lights up. It means that the meter enters setting interface.
- ② Temperature & Humidity measured value display, the actual displayed value of temperature or humidity value depends on setting. If not insert temperature & humidity probe, the meter will display OFF.
- ③ AREA symbol lights up. It means that meter is setting current area of air flow.
- ④ m<sup>2</sup> symbol lights up. It means that the meter measure area of air flow in the unit of m<sup>2</sup>. Press UNITS button, the unit will transfer into ft<sup>2</sup>, the meter measures area of air flow in the unit of ft<sup>2</sup>. ft<sup>2</sup> symbol lights up once m<sup>2</sup> symbol lit off.
- ⑤ Area setting: Set the value of original area as 0.0, the decimal point will be flashing. Press UP/DOWN button to increase or decrease the value of area of air flow 0.1/time. Press MAX/MIN/AVG button at this time, single digit will be flashing. Press UP/DOWN button to increase or decrease the value of area of air flow 1/time. Likewise, users can increase or decrease the value of area of air flow 100/time

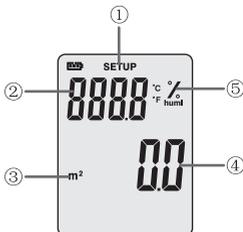
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2. Press SETUP button second time, enter setup interface of setting temperature & humidity



- ① SETUP symbol lights up. It means that meter enters setting interface.
- ② Temperature & Humidity value display. The actual displayed value of temperature or humidity value depends on the setting. If not insert temperature & humidity probe, the meter will display OFF. User can found that °C/°F/% symbol is flashing at that time, press UNITS button to transfer °C/°F. Press UP/DOWN button at this time, it will transfer temperature/humidity measured mode.
- ③ m<sup>2</sup>/ ft<sup>2</sup> symbol lights up. It is influenced by above setting of measured standard (m<sup>2</sup>/ ft<sup>2</sup>) of area of air flow.
- ④ The meter will display the value of area under above setting of area of air flow.
- ⑤ °C/°F/% humidity symbol. Enter temperature & humidity setup mode, °C/°F/HUML symbol will flash and will change with the transferring of °C/°F or humidity setting.

3. Press SETUP button again to exit setting interface, then return to measured interface. In ventilation area setting interfaces or temp. & humidity setting interface, press the ENTER button to confirm and back to setting interface, all setting of ventilation area will be saved automatically.

## 7. Maintenance

### Battery Replacement

When  appears on the LCD, the battery should be replaced on time. Open the battery cover to take out the old battery, replace the new battery. (9V battery NEDA 1604/6F22, or other similar batteries)