

# TENMARS



**Professional Electrical and  
Environment Test & Measurement  
Instruments:**

Battery Capacity / Impedance Tester  
LED light meter, Temperature & Humidity  
meter, Infrared Thermometer, Sound level  
meter, Light meter, EMF meter, UV Light meter,  
RF meter, Hot wire Anemometer, CO meter  
Anemometer, Lan cable tester, CO<sub>2</sub> meter,  
Solar power meter, Radiation meter,  
Clamp meter, Multimeter, Phase Rotation test,  
Digital Insulation tester

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# TENMARS

**Air Velocity Meter  
TM-740**

**User's manual**



HB2TM7400002

**TENMARS ELECTRONICS CO., LTD**

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**1. Description**


TM-740 measures air speed and temperature. It is ideal for spot measurements. at air outlets on account of its 30mm vane. In addition to air speed and temperature.

**2. Safety Precaution**



**CAUTION**

Be extremely careful for the following conditions while measuring.


- Do not operate the meter under the environment with explosive gas (material), combustible gas (material) steam or filled with dust.
- In order to avoid reading incorrect data, please replace the battery immediately when the symbol "  " appears on the LCD.
- In order to avoid the damage caused by contamination or static electricity, do not touch the circuit board before you take any adequate action.

- Operating Environment : Indoors use. This instrument has been designed for being used in an environment of pollution degree 2.
- Operation Altitude : Up to 2000M.
- EMC : EN61326-1(2006), IEC 61000-4-2(2008, IEC 61000-4-3(2006) + (2007).

### **3. Features**

- 30mm 6 plastics vane.
- Light air response 0.4m/s.
- Max/Min/Avg and data hold.
- Auto power off with disable function.

### **4. SPECIFICATIONS GENERAL SPECIFICATIONS**

- Display : Dual LCD display. The maximum value on the primary display is 9999. The maximum value on secondary display is 999.
- Low Battery Indicator : When the LCD displays "  " symbol, please replace the battery.
- Sampling Rate : 1 sample per second.
- Power Supply : 2 batteries 1.5V AAA MN2400 LR03 AM4.
- Battery Life : 50 hours during consecutive use.
- Dimensions : 135 × 48 × 23 mm (L × W × H).
- Weight : 80g (excluding the battery).
- Accessories : User manual, battery, and carrying case.

- Operating Temperature and Humidity :  
5°C ~ +50°C, <95% RH.
- Storage Temperature and Humidity :  
-10 to 60°C, <70% RH.

**Electrical Specification:**

**Velocity:**

Unit	Range	Resolution	Accuracy
m/s	0.4~25	0.1	±2% +0.2
Km/hr(kph)	1.5~90	0.1	±2% +0.8
mph	0.9~55	0.1	±2% +0.4
Knots(kts)	0.8~48	0.1	±2% +0.4
ft/min(fpm)	79~4921	1	±2% +40

**Temperature:**

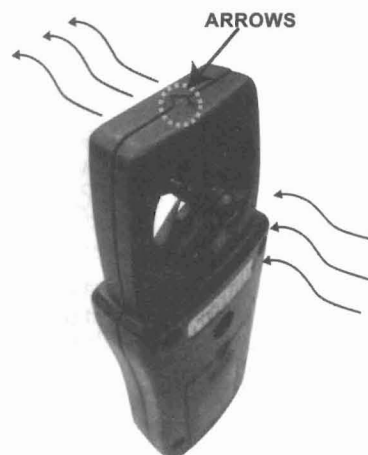
Unit	Range	Resolution	Accuracy
°C	-20~50	0.1	±1°C
°F	-4~122	0.1	±1.8°F

**Accessories :**

- User manual.
- 1.5V battery (AAA MN2400 LR03 AM4)\*2.
- Carrying case.

**5. AIR VELOCITY MEASURES**

Follow the arrows to measure velocity. As shown in figures.



**WARNING**

Please don't touch the vanes by fingers or foreign body to avoid damage to the vanes.

## 6. Operation

### 6.1. Velocity Unit Button:

Select the m/s → Knots(kts) → ft/min(fpm)  
→ Km/hr(kph) → mph.

### 6.2. CAL / °C / °F Button:

#### Calibration of 10 m/s

1. Prepare the 10m/s velocity.
2. Press CAL button and POWER button more than 2 second the LCD will display CAL.
3. Unlocks buttons.
4. Press CAL button again more than 2 second the meter will shut down.
5. Correct succeed.

### 6.3. °C / °F Button :

Select °C / °F.

### 6.4. MAX/MIN/AVG Button :

Press "MAX/MIN" button simultaneously Lockup data maximum and average and minimum value of measure data. Press the "MAX/MIN" button for more than 1 second to disable this feature.

### 6.5. Data Hold button:

Freezes the reading present on the LCD screen at the moment the button is pressed.



### 6.6. Power Button:

Press the "" button more than 2 second to power on the meter.

### 6.7. Auto Power:

To save battery life, the meter powers down automatically after approximately 12 minutes of inactivity.

### 6.8. Enable/disable auto power off

Power Off by pressing the "" button more than 2 second the LCD "" symbol will disappear or enable.

## 7. Instrument Description

1. Vane.
2. Display (LCD).
3. Velocity unit select button.
4. Calibration and °C/°F button.
5. Data hold button.
6. Maximum/Average/minimum button.
7. Power Button : ON/OFF.



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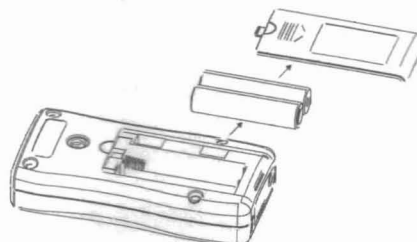
## 8 Battery Replacement



### WARNING

If the symbol "⊕-⊖" appears on the LCD, please replace the battery immediately.

1. Remove the battery cover.
2. Replace the battery.
3. Install the battery cover.



## 9 END OF LIFE



**Caution :** this symbol indicates that equipment and its accessories shall be subject to a separate collection and correct disposal.

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