TENMARS Air Velocity Meter TM-741 TM-740

User's manual



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TM-741/TM-740

The meter 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.

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

TENMARS TM-741/TM-740 5. ELECTRICAL SPECIFICATION:

Velocity:

| Unit | Range | Resolution | Accuracy | | | |
|--------|----------|------------|-------------------------|--|--|--|
| | | | ≤10m/s±(2%+0.5) | | | |
| m/s | 0.4~25 | 0.1 | 10~20m/s ±(2.5%+1) | | | |
| | | | >20m/s N/A | | | |
| Km/hr | | | ≤36Km/hr ±(2.0%+1.8) | | | |
| (kph) | 1.5~90 | 0.1 | 36~72Km/hr ±(2.5%+3.6) | | | |
| (kpii) | | | >72Km/hr N/A | | | |
| | | | ≤22mph ±(2.0%+1.1) | | | |
| mph | 0.9~55 | 0.1 | 22~44mph ±(2.5%+2.2) | | | |
| | | | >44mph N/A | | | |
| Knots | | | ≤19Knots ±(2.0%+1) | | | |
| (kts) | 0.8~48 | 0.1 | 19~38Knots ±(2.5%+1.9) | | | |
| (113) | | | >38Knots N/A | | | |
| | | | ≤1968ft/min ±(2.0%+100) | | | |
| ft/min | 79~4921 | 1 | 1968-3936 ft/min | | | |
| (fpm) | 1 3~4921 | 1 | ±(2.5%+200) | | | |
| | | | >3936ft/min N/A | | | |

Temperature:

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

6. ACCESSORIES :

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

TENMARS TM-741/TM-740 7. AIR VELOCITY MEASURES

Fallow 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.

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8. OPERATION

8.1 Velocity Unit Button:

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

8.2 CAL / °C/ °F Button: Calibration of 10 m/s

- 1. Prepare the 10m/s velocity.
- 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.

8.3 °C/ °F Button :

Select °C / °F.

8.4 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.

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8.5 Data Hold button:

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

8.6 Power Button:

Press the "(0)", button more than 2 second to power on the meter.

8.7 Auto Power:

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

8.8 Enable/disable auto power off

Power Off by pressing the "(1)" button more than 2 second the LCD "O" symbol will disappear or enable.

TENMARS TM-741/TM-740 9. INSTRUMENT DESCRIPTION

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





10. BATTERY REPLACEMENT



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





END OF LIFE

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



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, CO₂ meter, Solar power meter, Radiation meter, Clamp meter, Multimeter, Phase Rotation test, Digital Insulation tester

Our products of high quality are selling well all over the world

TENMARS ELECTRONICS CO., LTD

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