

User's Manual Professional Anemometer – 13/460/0



Please read this user manual before using this device and keep

it safe for future reference.

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1. Introduction

This anemometer is can provide fast, easy and accurate measurements of air velocity, air flow and temperature. It's extra-large and easy to read backlit LCD displays air flow and temperature readings simultaneously.

2. Application

These units are widely used in manufacturing, construction, environmental, meteorological and marine applications, as well as the education and leisure sectors.

3. Safety

Read the following safety information carefully before attempting to operate the meter.

Use the meter only as specified in this manual. Improper use could affect the accuracy of the measurements taken.

CE EMC compliant

4. Maintenance

This meter has already been calibrated before delivery, but may need to be re-calibrated to ensure the accuracy of readings taken. The unit contains no user serviceable parts, repairs and calibration should be carried out by qualified personnel. The recommended calibration period is one year.

Do not use volatile liquids to clean the unit, wipe with dry soft cloth.

5. Specifications

Circuit	Fast and high accuracy MCU design
Display	Extra-large LCD
Sampling rate	1 reading per second
Temperature measuring	High accuracy NTC resistance
Temperature range	-30°C to 60°C / -22°F to 140°F
Temperature accuracy	±1.5°C / ±2.7°F
Air velocity range	0.3m/s to 45.0m/s
Operation Temperature	-10°C to 60°C / 14°F to 140°F
Operating Humidity	≤90%RH (Non-condensing)
Storage Temperature	-10°C to 60°C / 14°F to 140°F
	Level 1-12 shown on an analog bar-graph
Air velocity level indication	levels above 12 are shown numerically.
Measurement average	Dynamic 30 point average of air flow
Maximum / Minimum	Displays maximum and minimum readings
	during current period of operation.
Hold	Holds current readings.
Area set	0.001 to 9999 $m^{\scriptscriptstyle 2}$ (0.001 to 9999ft²)
Bower Supply	9V battery (Type of 006P, NEDA1604 or
	IEC6F22)
Auto power off	After approx 15 minutes of inactivity
Pacalution	m/s:0.01、km/h:0.1、ft/min:1、knots:0.1
Resolution	mph:0.1、cmm:0.001、cfm:0.001
Dimensions (L*W*H)	185* 66*33mm
Weight	311g

6. Meter Description



- ① Air Velocity Sensor
- ② Sensor Interface
- ③ LCD display
- ④ SET Button
- ⑤ Backlight Button
- 6 HOLD Button
- ⑦ Velocity Units / DOWN
- 8 Power ON/OFF
- MAX/MIN
 MAX/MIN
- 10 AVG / UP
- 1) Temperature °C / °F
- 12 Battery cover
- (3) Tripod nut



7. LCD Display Description

- 1 Battery Power Indicator
- 2 Auto Power OFF icon
- ③ Temperature readings
- ④ Temperature units
- (5) Air Velocity Units:
- 6 Air Velocity readings
- ⑦ Air flow & Area units
- ⑧ HOLD Icon
- MAX/MIN Icon
- AVG Icon
 AVG Icon
- 1 Air Velocity level indication
- 1 Analog bar-graph indication for air velocity level

8. Changing the Battery

Use a small screwdriver to remove the securing screw on the battery compartment and remove the battery cover. Attach the battery connector to the terminals of a suitable 9V battery and replace the cover and screw. Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage and possible damage to the meter.



9. Operating Instructions

Power ON: Assuming there is a suitable battery inserted, turn the meter on by pressing the " (U)" button until the LCD screen is activated, then release the button.

Power OFF: Turn the meter off by pressing and holding the " button for approx. 3 seconds until the LCD is switched off, then release the button.

Backlight: After turning the meter on, press the " button. Repeat to manually switch the backlight off again. If the backlight is left on, it will automatically turn off after approx. 30 seconds of inactivity.

Units selection: After enter measuring mode, press the "Units" button to select desired units.

HOLD: Press the "(**HOLD**" button once, the "HOLD" icon will appear on the LCD, which indicates the reading is frozen. Press the button again to exit HOLD mode.

MAX/MIN: Press the " button once until the "MAX" icon appears on the LCD to view the current maximum reading; press the button again and the "MIN" icon will appear to view the current minimum reading. To exit MAX/MIN mode, press the " " button again. AVG Button: Press the " " button once, 'AVG' will appear on LCD, the meter is now in average measuring mode, the average value of the last 30 readings will be displayed on the LCD. **Temperature Units:** Press the "(f')" button to select °C or °F. **Setting the Area Units:** Press and hold the "(f')" button and then power the meter on, release "(f')" button when LCD displays. The wind speed section will be flashing and the set area will be displayed. Pressing the "(f')" button changes the units from m² to ft² The area units can be altered by pressing the UP and DOWN buttons. If a large change in area is required the decimal point can be shifted by pressing the "(f')" button.



If the set area is above 9999 m^2 , the actual area=displayed data x100 as shown above.

10. Supplementary Items

♦User's manual

♦9V battery

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