

LM-81AM

REED INSTRUMENTS

Vane Anemometer



Instruction Manual



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Introduction

Thank you for purchasing your REED LM-81AM Vane Anemometer. Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your meter will provide years of reliable service.

Product Quality

This product has been manufactured in an ISO 9001 facility and has been calibrated during the manufacturing process to meet stated product specifications. If a certificate of calibration is required please contact the nearest authorized REED distributor or authorized Service Center. Please note an additional fee for this service will apply.

Safety

Never attempt to repair or modify your instrument. Dismantling your product, other than for the purpose of replacing batteries, may cause damage that will not be covered under the manufacturer's warranty. Servicing should only be provided by an authorized service center.

Features

- Measures fpm, m/s, kph, mph and knots
- Easy to operate, compact design
- 4-digit LCD display
- Min/Max and data hold functions
- Designed for one hand operation
- Low battery indicator and auto shut off

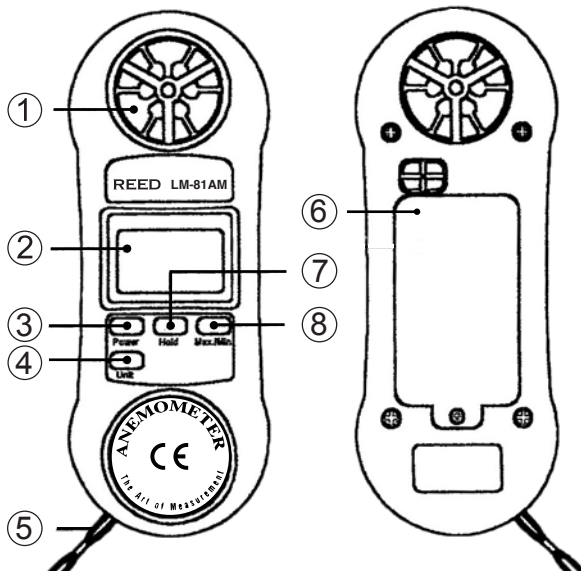
Included

- Wrist Strap
- Battery

Specifications

Type:	Vane
Measuring Ranges:	fpm: 80 to 5910 m/s: 0.4 to 30 km/h: 1.4 to 108 mph: 0.9 to 67 knots: 0.8 to 58.3
Accuracy:	≤3937fpm, 20m/s, 72km/h, 44.7mph, 38.9 knots: ±3% rdg. >3937fpm, 20m/s, 72km/h, 44.7mph, 38.9 knots: ±4% rdg.
Resolution:	fpm: 1 m/s, km/h, mph, knot: 0.1
Vane Diameter:	1.3" (32mm)
Response Time:	<1 second
Display:	4-digit LCD
Data Hold:	Yes
Min:	Yes
Max:	Yes
Sampling Rate:	1 time/second
Auto Shut-Off:	Yes (after 10 minutes)
Low Battery Indicator:	Yes
Power Supply:	9V Battery
Product Certifications:	CE
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	14 to 140°F (-10 to 60°C)
Operating Humidity Range:	10 to 80%
Dimensions:	6.1 x 2.4 x 1.3" (156 x 60 x 33mm)
Weight:	5.6oz (160g)

Instrument Description



- 1. Air Flow Sensor
- 2. LCD Display
- 3. Power Button
- 4. Unit Button

- 5. Wrist Strap
- 6. Battery Compartment/Cover
- 7. Hold Button
- 8. MAX/MIN Button

Operating Instructions

1. Turn the instrument on or off by pressing the **POWER** button.
2. Press the **UNIT** button to cycle through the units of measurements (fpm, m/s, kph, mph and knots).
3. When selected, face the Air Flow Sensor to the source of wind.

Note: For the best results when using your instrument, make sure the airstream and the sensor are aligned (± 20 degrees maximum) and wait approximately 3 seconds for the reading to stabilize.

4. When the readings are stable, note the measured value.

Data Hold

1. While taking a measurement, press the **HOLD** button to freeze the current readings on the display.
2. While in this mode a "HOLD" symbol will appear on the LCD.
3. Press the button again to resume normal operation.

Recording Maximum and Minimum Readings

1. Press the **MAX/MIN** button to enter recording mode as indicated by "REC" on the LCD. The meter will now begin recording maximum and minimum readings.
2. While in recording mode:
 - A) Press the **MAX/MIN** button once and the maximum value will appear on the display as indicated by "REC MAX".
 - B) Press the **MAX/MIN** button again and the minimum value will appear on the display as indicated by "REC MIN".
 - C) To exit recording mode and resume normal operation, press and hold the **MAX/MIN** button for two seconds.

Note: When in recording mode the **POWER** button is disabled and the meter cannot be turned off.

Auto Power Off

To preserve battery life, the meter is programmed to turn off after 10 minutes of inactivity.

Battery Replacement

When the low battery icon appears on the left corner of LCD display, you will need to replace the battery. Remove the battery cover using a Phillips head screwdriver, insert a new 9V battery and secure the cover.

Accessories and Replacement Parts

CA-52A Soft Carrying Case

Don't see your part listed here? For a complete list of all accessories and replacement parts visit your product page on www.reedinstruments.com.

Applications

- HVAC and Refrigeration Servicing
- Detecting Filter Blockage
- Condensers and Chillers

Product Care

To keep your instrument in good working order we recommend the following:

- Store your product in a clean, dry place.
- Change the battery as needed.
- If your instrument isn't being used for a period of one month or longer please remove the battery.
- Clean your product and accessories with biodegradable cleaner. Do not spray the cleaner directly on the instrument. Use on external parts only.

Product Warranty

REED Instruments guarantees this instrument to be free of defects in material or workmanship for a period of one (1) year from date of shipment. During the warranty period, REED Instruments will repair or replace, at no charge, products or parts of a product that proves to be defective because of improper material or workmanship, under normal use and maintenance. REED Instruments total liability is limited to repair or replacement of the product. REED Instruments shall not be liable for damages to goods, property, or persons due to improper use or through attempts to utilize the instrument under conditions which exceed the designed capabilities. In order to begin the warranty service process, please contact us by phone at 1-877-849-2127 or by email at info@reedinstruments.com to discuss the claim and determine the appropriate steps to process the warranty.

Product Disposal and Recycling



Please follow local laws and regulations when disposing or recycling your instrument. Your product contains electronic components and must be disposed of separately from standard waste products.

Product Support

If you have any questions on your product, please contact your authorized REED distributor or REED Instruments Customer Service by phone at 1-877-849-2127 or by email at info@reedinstruments.com.

Please visit www.REEDINSTRUMENTS.com for the most up-to-date manuals, datasheets, product guides and software.

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