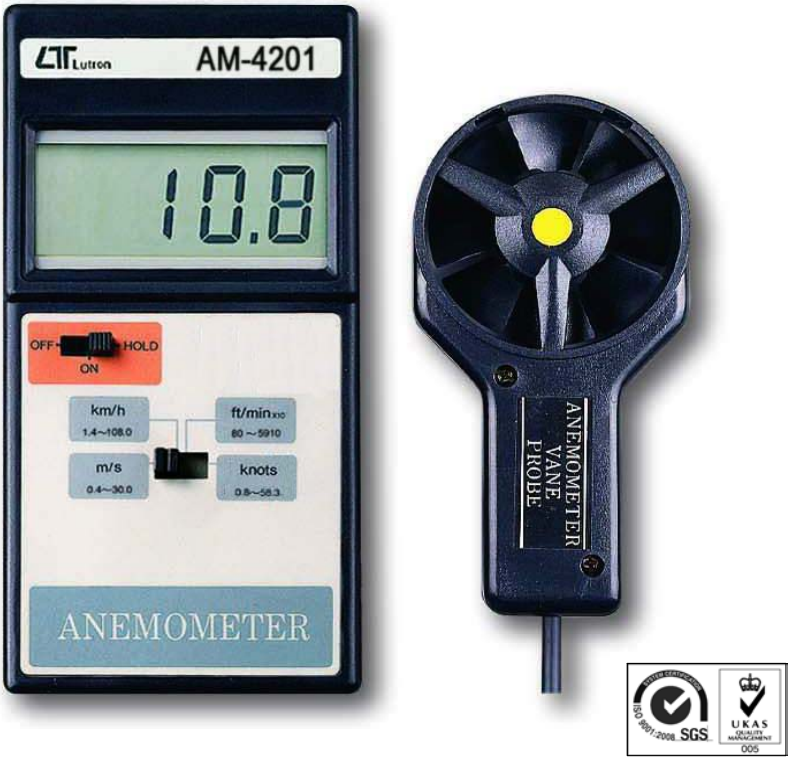
+Temperature

ANEMOMETER

Model : AM-4201



Your purchase of this ANEMOMETER marks a step forward for you into the field of precision measurement. Although this METER is a complex and delicate instrument, its durable structure developed. Please read the following instructions carefully and always keep this manual within easy reach.

OPERATION MANUAL

TABLE OF CONTENTS

1. FEATURES

* The portable anemometer provides fast, accurate readings, with digital readability and the convenience of a remote sensor separately.
* Multi-functions for air flow measurement: m/s, km/h, ft/min, knots.
* Low-friction ball-bearing design allows free vane movement, resulting in accuracy at both high & low velocities.
* A sensitive balanced vane wheel rotates freely in response to air flow.
* Conventional twisted vane arms, always a source of unreliability have been eliminated.
* DATA HOLD function for stored the desired value on display. Large LCD display, easy to read.
* LCD display for low power consumption & clear read-out even in bright ambient light condition.
* Used the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.
* Compact housing cabinet, easy to carry out.
* Built-in low battery indicator.
* Wide applications: use this anemometer to check air conditioning & heating systems, measure air velocities, wind speeds, temperature...etc.

2. SPECIFICATIONS

2-1 General Specifications

Display	18mm (0.7") LCD (Liquid Crystal Display), 3 1/2 digits.	
Measurement	m/s (meters per second), km/h (kilometers per hour), ft/min (feet/per minute), knots (nautical miles per hour), Data hold.	
Operating Temperature	0 蚓 to 50 蚓 (32 蚌 to 122 蚌).	
Operating Humidity	Less than 80 % RH.	
Air Velocity Sensor Structure	Conventional twisted vane arms and low-friction ball-bearing design.	
Power Supply	006P DC 9V battery (heavy duty type).	
Power Consumption	Approx. DC 9 mA.	
Weight	325 g/0.72 lb (including battery).	
Dimension	Instrument	168 x 80 x 35mm (6.6 x 3.2 x 1.2 inch)
	Sensor Head	Round, 72 mm Dia.
Standard Accessories	Instruction Manual..... 1 PC. Sensor probe..... 1 PC. Carrying case..... 1 PC.	

2-2 Electrical Specifications (23 ± 5 ℃)

Measurement	Range	Resolution	Accuracy
m/s	0.4 - 30.0 m/s	0.1 m/s	± (2%+0.2m/s)
km/h	1.4 - 108.0 km/h	0.1 km/h	± (2%+0.8km/h)
knots	0.8 - 58.3 knots	0.1 knots	± (2%+0.4knots)
ft/min	80 - 5910 ft/min	10 ft/min	± (2%+40 ft/min)
m/s - meters per second km/h - kilometers per hour ft/min - feet/per minute knots - nautical miles per hour mph - miles per hour (international knot)			

Remark :

Above specification are tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.

3. FRONT PANEL DESCRIPTION

Fig. 1

3-1 Display
3-2 Off/On/Hold Switch
3-3 Range (m/s, km/h, ft/min, knots/Temp) Switch
3-4 Battery Compartment/Cover
3-5 Vane Probe handle
3-6 Vane Probe head

4. MEASURING PROCEDURE

1) Select the " Off/On/Hold Switch " (3-2, Fig. 1) to the " On " position.
2) Select the " Function Switch " (3-3, Fig. 1) to the " m/s ", " km/h ", " ft/min " or " knots " position according to the measuring requirement.
3) Hold the " Vane Probe Handle " (3-5, fig. 1) by hand & let the " Vane Probe Head " (3-6, Fig. 1) is opposite to the measuring air flow source, then the Display (3-1, Fig. 1) will show air velocities directly.

Measuring Consideration :

The yellow dot mark on the sensor head indicates the " yellow dot mark " need to face against the direction of air flow.

4) During the measurement, it will hold the display values if select the " Off/On/Hold Switch " (3-2, Fig. 1) to the " Hold " position.

5. REPLACEMENT OF BATTERY

1) When the left corner of LCD display show " BAT ", it is necessary to replace the battery. However, in-spec. measurement may still be made for several hours after low battery indicator appears before the instrument become inaccurate.
2) Loose the " Battery Cover Screw " (3-4, Fig. 1), slide the battery cover away from the instrument and remove the battery.
3) Replace with 9V battery (heavy duty type) and reinstate the cover.
4) Make sure the battery cover is secured with the screw after changing battery.