

pocket type, separate probe

ANEMOMETER



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

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1. FEATURES

- * High quality and economical cost.
- * Pocket size compact case.
- * Separate probe for easier measurement
- * Low-friction ball vane for accurate high and low velocity use.
- * Multi-unit of measurements : m/s, km/h, ft/min, knots
- * Fast and accurate readings with LCD display.
- * Power source from 006P DC 9V battery.
- * Uses durable, long lasting components, including a strong, light weight ABS-plastic case.
- * Wide range of applications including measurement of air velocities in heating ventilation and air conditioning (HVAC) systems.

2. SPECIFICATIONS

2-1 General specifications

Display	13 mm (0.5") LCD. 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)
Sensor Structure	Conventional twisted van arm and low friction ball bearing design.
Sampling Time	Approx. 0.4 sec.
Operating Temperature	0 °C to 50 °C (32 °F to 122 °F).
Operating Humidity	Less than 80% RH.

Power Supply	DC 9V 006p, MN1604 (PP3) battery or equivalent. (heavy duty type).
Power Current	Approx. DC 6 mA.
Weight	381 g/0.84 LB.
Dimension	<i>Main Instrument:</i> 180 x 73 x 23 mm (4.3 x 2.9 x 1.4 inch).
	<i>Sensor head:</i> Round, 72 mm Dia.
Weight	260 g/0.58 LB (including battery).
Accessories	Instruction manual.....1 PC. Sensor probe.....1 PC.

2-2 Electrical specifications (23 ± 5 ° C)

Measure - ment	Range	Resolution	Accuracy
m/s	0.8 - 30.0 m/s	0.1 m/s	Full scale : ± (3% + 2d)
km/h	2.8 - 108 km/h	0.1 km/h	
knots	1.6 - 58 knots	0.1 knots	
ft/min (x100)	160 - 5900 ft/min	10 ft/min	

Note 1 :

- m/s - meters per second
- ft/min - feet/per minute
- km/h - kilometers per hour
- knots - nautical miles per hour (international knot)

Note 2 :

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

3. FRONT PANEL DESCRIPTION

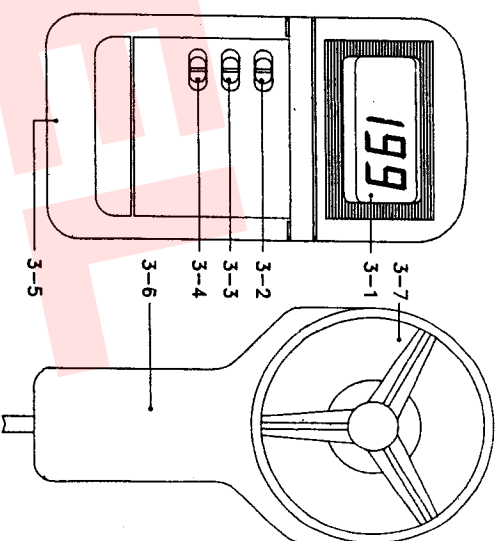


Fig. 1

- 3-1 Display
- 3-2 Power Off/On Switch

Symbol:
Power On = 1
Power Off = 0

- 3-3 Function Switch 1
- 3-4 Function Switch 2
- 3-5 Battery Compartment/Cover
- 3-6 Sensor Handle
- 3-7 Sensor Head

4. MEASURING PROCEDURE

- 1) Select the "Power Off/On Switch " (3-1, Fig. 1) to the "On" position.
- 2) According to the desired display unit, select the "Function switch 1 " (3-2, Fig. 1) & "Function Switch 2 " (3-3, Fig. 1) to the right position as following :

Unit	Function Switch 1	Function Switch 2
m/s	A	m/s
km/h	A	km/h
ft/min	B	ft/min
knots	B	knots

- 3) Hold the "Sensor Handle " (3-6 Fig. 1) by hand & let the "Sensor Head " (3-7, Fig. 1) is opposite to the measuring air flow source, then the Display will show air velocities directly.

* The ft/min. range should be multiplied by 100.

For example, the display value in the ft/min. range is 23.0, then the exact value is $23.0 \times 100 = 2300$ ft/min.

Measuring Consideration:

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

5. BATTERY REPLACEMENT

- 1) When the LCD display shows "LOBAT" it is necessary to replace the battery. Measurements may still be made several hours after the "LOBAT" indicator appears before the instrument becomes inaccurate.
- 2) Slide the battery cover (3-5, Fig. 1) and remove the battery.
- 3) Replace 9V battery and re-install battery cover.
- 4) Make sure the battery cover is secure after changing the battery.