

# CUP ANEMOMETER BAROMETER/HUMIDITY TEMPERATURE

Model : ABH-4224

*ISO-9001, CE, IEC1010*



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

# CUP ANEMOMETER BAROMETER HUMIDITY/TEMP.

Model : ABH-4224

## FEATURES

* Cup Anemometer, Barometer, Humidity, Temperature meter, 4 in one, professional.
* Anemometer unit : m/S, Km/h, FPM, mph, Knot.
* Barometer unit : hPa, mmHg, inHg.
* Humidity with Dew point measurement
* Temperature measurement with °C, °F unit.
* Cup vane anemometer, available for wind speed measurement, high reliability.
* Fast response time for humidity measurement.
* Atmosphere measurement with high accuracy.
* Two display can select the six mode ( function ) : Humidity/Temp., Humidity/Dew point, Anemometer/Temp., Barometer/Temp. Barometer/Humidity, Barometer/Anemometer,
* Bright LCD display.
* Microprocessor circuit ensures high accuracy and provides special functions and features.
* Records Maximum and Minimum readings with recall.
* Auto power off saves battery life.
* Operates from DC 1.5V ( UM4/AAA ) x 4 PCs batteries.
* Low-friction ball vane wheels is accurate in both high and low velocities.
* Durable, long-lasting components, enclosed in strong, compact ABS-plastic housing.

## GENERAL SPECIFICATIONS

Display	LCD size : 28 mm x 19 mm.	
Anemometer Unit	m/S (meters per second) Km/h ( kilometers per hour ) FPM ( feet per minute ) mph ( miles per hour ) Knot ( nautical miles per hour )	
Temp. unit	°C, °F	
Barometer unit	hPa, mmHg, inHg.	
Humidity unit	%RH	
Dew point	°C, °F	
Circuit	Custom one-chip of microprocessor LSI circuit.	
Sensor Structure	Anemometer	Cup van probe with low friction ball bearing design.
	Barometer	Semiconductor
	Humidity	Capacitance humidity sensor, semiconductor
	Temperature	Semiconductor
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time	Approx. 1 second.	
Power off	Auto shut off saves battery life or manual off ( REC function ).	
Operating Temperature	0 to 50 °C.	
Operating Humidity	Less than 80% R.H.	
Power Supply	DC 1.5 V battery ( UM4/AAA ) x 4 PCs,	
Power Current	Approx. DC 5.2 mA	
Weight	182 g/ 0.4 LB. @ Battery is included.	

Dimension	Main instrument :
	190 x 40 x 32 mm (7.5" x 1.6" x 1.3")
	Cup vane ( 3 cups with arm ) :
	135 mm dia.
Accessories Included	Instruction manual.....1 PC Hard carrying case.....1 PC

## ELECTRICAL SPECIFICATIONS (23±5 °C)

### Anemometer ( Air velocity )

Measurement	Range	Resolution	Accuracy
m/S	0.9 - 35.0 m/S	0.1 m/S	± ( 2%+0.2 m/S)
Km/h	2.5 - 126.0 Km/h	0.1 Km/h	± ( 2%+0.8 Km/h)
FPM	144 - 6895 Ft/min	1 Ft/min	± ( 2%+40 Ft/min)
mph	1.6 - 78.2 Mile/h	0.1 Mile/h	± ( 2%+0.4 Mile/h)
Knot	1.4 - 68.0 Knots	0.1 Knots	± ( 2%+0.4 Knots)

Note :

m/S (meters per second)      mph ( miles per hour )  
Km/h ( kilometers per hour )      Knot ( nautical miles per hour )  
FPM ( feet per minute )

### Temperature

Measuring Range	0 °C to 50 °C/32 °F to 122 °F
Resolution	0.1 °C/0.1 °F
Accuracy	± 0.8 °C/1.5 °F

### Humidity / Dew point

#### a. Humidity

Range	10 % to 95 % R.H.
Resolution	0.1 % R.H.
Accuracy	≥ 70% RH ± (3% reading + 1% RH). < 70% RH - 3% RH. ± 3% RH.

#### b. Dew point

°C	Range	-25.3 °C to 48.9 °C
	Resolution	0.01 °C
°F	Range	-13.5 °F to 120.1 °F.
	Resolution	0.01 °F.

Remark :

\* Dew Point display value is calculated from the Humidity/Temp. measurement automatically.  
\* The Dew Point accuracy is sum accuracy value of Humidity & Temperature measurement..

### Barometer

Measurement	Range	Resolution	Accuracy @ reading
hPa	10.0 to 999.9	0.1	± 1.5 hPa
	1000 to 1100	1	± 2 hPa
mmHg	7.5 to 825.0	0.1	± 1.2 mmHg
inHg.	0.29 to 32.48	0.01	± 0.05 inHg

\* Appearance and specifications listed in this brochure are subject to change without notice.

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