TECPEL® AVM-715 Digital Anemometer

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FUNCTION :

Push-button switch, reading lock, Celsius Fahrenheit switch can store 10 groups of data, wind speed unit can be switched, AVG average (multi-point), air flow measurement, maximum and minimum display.

FEATURES: :

※ INSTANT DISPLAY OF THE AIR VELOCITY AND TEMPERATURE
※ MAXIMUM, MINIMUM AND AVERAGE VALUE CALCULATION
※ EASY AIRFLOW VOLUME CALCULATION
CFM : Cubic feet per minute
CMS : Cubic meter minute
※ 10 MEMORIES DATA STORAGE/ RECALLING/ CLEARING
※ DATA HOLD/TEST FUNCTION
※ LOW BATTERY INDICATION
※ ONE HOUR AUTO SHUT OFF FUNCTION

SPECIFICATION :

MEASUREMENT RANGE	:	0 ~ 50°C (32 ~ +122°F)
RESOLUTION	:	± 0.1° FOR WHOLE RANGE
ACCURACY	:	±0.5°C FOR 0°C ~ +50°C OR ±0.9°F FOR +32°F ~ +122°F, OTHERWISE ±1°C OR 1.8°F
SENSING TIME	:	1 SECOND
BATTERY	:	3 X 1.5 VOLTS “AAA” SIZE OR EQUIVALENT

AIR VELOCITY MEASUREMENT :

MEASUREMENT RANGE		RESOLUTION
0.8 TO 35.0 m/s	(METER PER SECOND)	0.1
2.8 TO 125.0 km/hr	(KILOMETERS PER HOUR)	0.1
1.7 TO 78.0 mph	(MILE PER HOUR)	0.1
160 TO 6860 ft/min	(FEET PER MINUTE)	10
1.5 TO 68.0 knots	(NAUTICAL MILES PER HOUR)	0.1

ACCURACY: ±2% FOR ALL RANGE

INSTALLATION :

a) Unpack the anemometer with care.
b) Open the battery door. then install three 1.5 Volts “AAA” size or equivalent battery into the battery compartment. and close the battery door.
c) Replace new battery when the low battery indicator appears on the screen.

ON/OFF :

Press “ON/OFF” for ON/OFF switching. Full display shows for a while. The upper display shows the velocity (Default as m/s) velo sign appear, while the lower display shows the temperature (Default as °F) measured.

ONE HOUR AUTO SHUT OFF FUNCTION & CANCELLATION :

a) This product will turn off automatically after one hour.
b) To disable this function, press “on/off” and “H/T” together to turn on the unit each time. The product will keep working until being shut off by users.

UNIT :

The unit is default in ft/min as measurement unit for air velocity. User can press this button to interchange the airflow velocity unit as the following:
ft/min > mph > m/s > km/hr > knots.

PRECAUTIONS :

EMOVE THE BATTERY FROM THE BATTERY COMPARTMENT IF THE ANEMOMETER WILL NOT BE USED FOR LONG DURATION OF TIME OR DURING STORAGE.
THE THERMOMETER CANNOT BE USED OR PUT INSIDE ANY OVEN OR MICROWAVE.

HOLD/TEST :

Press the button to freeze the reading for recording (BOTH VELOCITY & TEMPERATURE), hold sign appears. Press again the unit will restore to real time mode.

°F / °C :

Press to switch the reading between °C and °F as temperature unit.

AVG / MAX / MIN :

a) Press once the unit will show the continue moving average measurement of velocity (AVG), maximum measurement (MAX) and minimum measurement (MIN) as following:
AVG > MAX(BOTH TEMP & VELOCITY) > MIN(BOTH TEMP & VELOCITY) > REAL TIME READING
b) Relevant sign appears on the display and reading update per seconds.
c) To clear value, press and hold the key for 3 seconds, 2 successive beeps sound is given out.

AVG(MULTI POINT) :

a) Hold the unit in position, press the “hold” button to freeze the reading (both velocity and temperature).
b) Then press “MEM” button to save the reading. (A single beep is given out for every successful saving). MEM 1 displays representing one reading is saved.
c) Repeat step (a) – (b) to save another reading, MEM 12 displays representing 2 readings are saved.
d) Continue to do so up to 10 sets of reading can be saved.
e) Once all measurement have been saved, press “AVG (multi point)” button, the unit will display the average air velocity from memory and avg sign appears.

MEM (MEMORY RECALLING) :

a) Press the “MEM” button, all saved reading (both temperature & velocity) will be shown, starting from the 1st reading (I.E. MEM 1) to the 10th reading (I.E. MEM 10).
b) Press and hold the “MEM” button for 3 seconds to clear all saved .

AIR FLOW VOLUME MEASUREMENT :

Regarding the air flow volume measurement, it has two functions, (i) single point measurement (ii) average for multi point measurement. Please kindly see the below explanation for these two functions:

(i) Single point measurement

For single point measurement, it measures and only shows the current air flow volume. For this function, you have to set the free area of the air source, and then you can measure the current air flow volume. Firstly, you have to press “AIR FLOW” button for 3 seconds to set free area. You can press “HOLD” button to increase number of the flashing digit and press AVG (MULTI POINT) button to move to the next digit. Then, you can press “AIR FLOW” button to confirm the setting and it will show FLOW sign (cms). At this moment, you can measure the current air flow.

(ii) Average for multi point measurement

Regarding average for multi point measurement, it is different from single point measurement. This function is combining all memories (multi points) to generate the average air flow volume. Therefore, for this function, you have to memorize the data that you want to generate the average. Firstly, you can press “HOLD” & “MEM” button to memorize the date first, our anemometer can memorize 10 data. Then, you have to press “AVG (MULTI-POINT)” and press “AIR FLOW” button for 3 seconds so that you can set the area (sqm). After setting the area (sqm), you have to press “AIR FLOW” button to confirm it. Then, it will display average air flow (cms) and the number of points measured on the screen.

Accuracy :

For the accuracy written +/-2% on the manual, it is based on the wind velocity which can be met 2m/s or above. If the wind velocity is under 2m/s, the wind will be weak and slow. This weak and slow wind might not consistently make the vane moved smoothly. Based on the situation of this low velocity (under 2m/s), we have to add compensation on it. After checking with our technician, if the wind velocity is under 2m/s, we have to add compensation (+-0.3m/s & +-2% reading). Therefore, for 0m/sec, it also needs to add compensation (+-0.3m/s & +-2% reading) for safety.

Air Flow Unit display :

Regarding the air flow unit display, actually you can choose the unit that you want to use. Once you select the unit you want, then you can press “AIR FLOW” for three seconds and set the free area. Then, the unit display will be changed.

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