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Manual HVAC Meter PCE-007



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1. Features

- Sensitive and Accurate (ultra low friction jewel bearing)
- Flow (CMM, CFM),
- Velocity (m/s, ft/min, knots, km/hr, mph)
- Dual Display (VEL + Temperature, FLOW + AREA)
- Memory of 2000 Records
- One Shot or Continuous Recording
- Sampling time set by keypad
- RS-232C interface (PCE-007)
- °C/ °F
- Ergonomic and easy-to-use design
- Read while measuring (detached vane)
- Large 17mm 3 ½ digits LCD (Liquid Crystal Display)
- Hold/Max/Min function
- Build-in low battery indicator

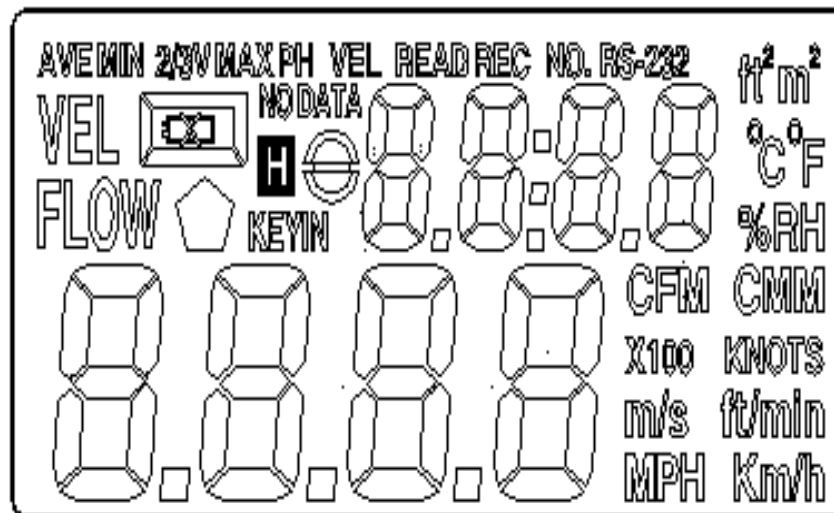
2. Front Panel Description

Figure 1

- 1 LCD
- 2 Detached Vane
- 3 On/Off Button
- 4 RS-232C Interface
- 5 Function and Numerical Keypad



2.1. LCD



- AVE:** When method of average is selected by OPTION button for flow measurement, this symbol will appear.
- MIN:** When MAX/MIN button is pressed twice, this symbol will appear to indicate MIN value of ever measured value for either velocity or flow is displayed in LCD
- 2/3V:** This symbol will be displayed together with MAX when 2/3VMax method is selected by OPTION button in flow measurement.
- MAX:** When MAX/MIN button is pressed once, this symbol will appear to indicate MAX function is enable.
- VEL:** When VEL/FLOW button (number 4) is pressed, this symbol will appear to indicate anemometer is measuring wind velocity.
- READ:** When the read function is enabled to read data stored in the anemometer, this symbol will appear.
- REC:** When the anemometer is recording data, this symbol will appear.
- RS-232:** When the RS-232 function is enabled, this symbol will appear.
- ft²:** This symbol is used to indicate free area in square feet when in flow function.
- m²:** This symbol is used to indicate free area in square meter when in flow function.
- °C:** This symbol is used indicate temperature in Celsius.
- °F:** This symbol is used to indicate temperature in Fahrenheit.
- CFM:** This symbol is used to indicate unit in cubic feet per minute.
- CMM:** This symbol is used to indicate unit in cubic meter per minute.
- x100:** This symbol is to used indicate the actual value is the value display in LCD multiplied by 100.
- x10:** This symbol is to used indicate the actual value is the value display in LCD multiplied by 10.
- m/s:** This symbol is to used indicate the unit is in meters per second.
- ft/min:** This symbol is to used indicate the unit is in feet per minute.
- MPH:** This symbol is to used indicate the unit is in miles per hour.
- Km/h:** This symbol is to used indicate the unit is in kilometers per second.

3. Operation Instruction

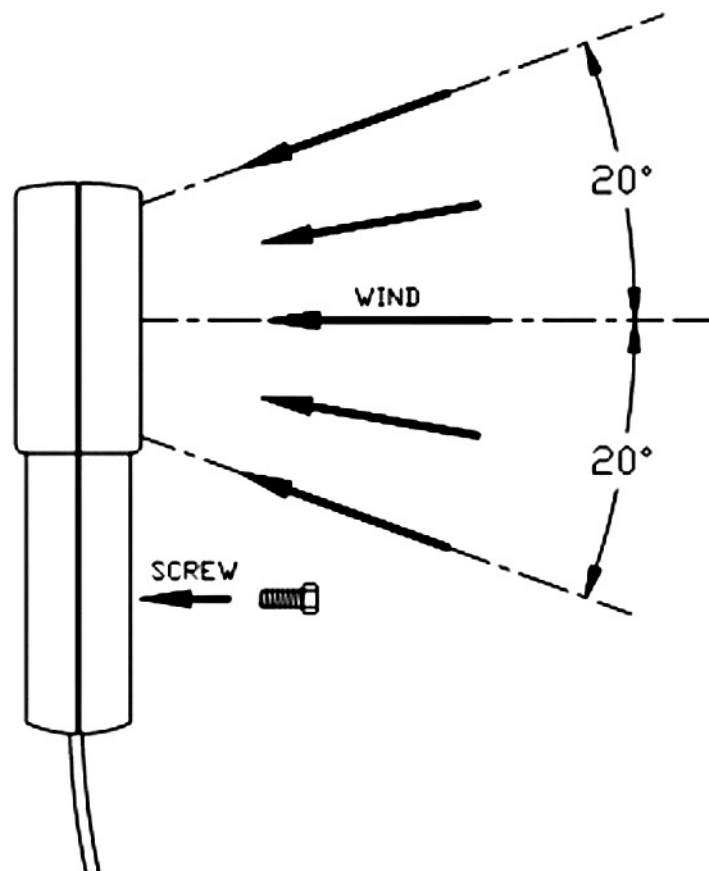


Figure 2

3.1. Measurement of Wind Velocity (refer to figure 2)

1. Press the on/off button to turn on the anemometer.
2. Select anemometer function by pressing the VEL/FLOW button (number 4). VEL symbol will appear in LCD.
3. Press the unit button (number 3) to select desired unit.
4. Determine the approximate wind direction.
5. Hold the anemometer so that the air flow will pass through the vane from the back to the front (the back: where the mounting nut is; the front: where engraving of ANEMOMETER is).
6. Wait for 2 seconds for a stabilized reading
7. For more accurate results, try to keep the axis of the vane within 20° of the wind direction.

3.2. Measurement of Wind/Air Temperature

1. When the meter is measuring wind velocity, the temperature of wind is measured at the same time.
2. Select $^{\circ}\text{C}$ or $^{\circ}\text{F}$ by pressing $^{\circ}\text{C}/^{\circ}\text{F}$ button (number 6).
3. Let the wind pass through the vane (A thermocouple is built into the center of the vane).
4. Read the temperature reading from LCD.

3.3. Measurement of Wind/Air Flow (Instant Air Flow)

1. Press the on/off button to turn on the anemometer.
2. Press the VEL/FLOW button (number 4) to select FLOW function. FLOW symbol will appear in LCD.
3. Press the unit button (number 3) to select the desired unit (CFM or CMM).
4. The previous stored free area will be displayed in upper LCD. To enter new free area, press AREA



- (number 0) button. The lower four digits will become blank, and anemometer wait for users to enter.
5. Press the OPTION button several times until none of AVE or 2/3VMAX is shown in LCD.
 6. Users enter free area by pressing the numerical keypad. After free area is entered, press ENTER button to end. The anemometer will also automatically exit entering if all 4 digits are entered.
 7. Determine the approximate wind direction.
 8. Hold the anemometer so that the air flow will pass through the vane from the back to the front (the back: where the mounting nut is; the front: where engraving of ANEMOMETER is).
 9. Wait for 2 seconds for a stabilized reading. The flow value equals velocity time's free area.

$$FLOW = VELOCITY \times (FREE AREA)$$

10. For more accurate results, try to keep the axis of the vane within 20° of the wind direction.

3.4. Measurement of Wind/Air Flow (2/3Vmax Air Flow)

1. Press the on/off button to turn on the anemometer.
2. Select anemometer function by pressing the VEL/FLOW button (number 4). FLOW symbol will appear in LCD.
3. Select the desired unit (CFM or CMM) by pressing the unit button (number 3).
4. The previous stored free area will be displayed in upper LCD. To enter new free area, press AREA (number 0) button. The lower four digits will become blank, and anemometer wait for users to enter.
5. Press the OPTION button to select 2/3VMAX method.
6. Users enter free area by pressing the numerical keypad. After free area is entered, press ENTER button to end. The anemometer will also automatically exit entering if all 4 digits are entered.
7. Determine the approximate wind direction.
8. Move around the center of free area to measure the maximum velocity of wind velocity. The anemometer will record the maximum value and use it to calculate the wind flow.
9. For more accurate results, try to keep the axis of the vane within 20° of the wind direction.

3.5. Measurement of Wind/Air Flow (Average Air Flow)

1. Press the on/off button to turn on the anemometer.
2. Select anemometer function by pressing the VEL/FLOW button (number 4). FLOW symbol will appear in LCD.
3. Select the desired unit (CFM or CMM) by press the unit button (number 3).
4. The previous stored free area will be displayed in upper LCD. To enter new free area, press AREA (number 0) button. The lower four digits will become blank, and anemometer wait for users to enter.
5. Press the OPTION button to select AVE method.
6. Users enter free area by pressing the numerical keypad. After free area is entered, press ENTER button to end. The anemometer will also automatically exit entering if all 4 digits are entered.
7. Press the START button (dot) to clear the upper LCD to zero.
8. Determine the approximate wind direction.
9. Select measuring point in the free area. Once a point is selected, press the NEXT button (dot) to average the wind flow. The value in the upper LCD will increment by one to indicate how many points have been averaged. The maximum number of points is 12.
10. For more accurate results, try to keep the axis of the vane within 20° of the wind direction.

3.6. Holding the Reading

Press the hold button to hold the reading of values in LCD.

3.7. Finding the Maximum or Minimum values

Press the MAX/MIN button to record the maximum or minimum values of wind velocity and temperature or flow.



3.8. To Record One Data (One Shot, Sampling Time = 0)

1. Set the sampling time to 0 by pressing the SAMPLE button (number 0) in the VEL mode (measuring velocity of wind). The previous stored sampling time will be displayed in upper LCD.
2. Enter number 0 and press ENTER button.
3. Every time REC button is pressed, the data in LCD is stored in memory (the data is always kept even battery is removed later.)

3.9. To Record Data Continuously (Sampling Time \neq 0)

1. Set the sampling time to desired value (1 to 240) by pressing the SAMPLE button (number 0) in the VEL mode (measuring velocity of wind). The previous stored sampling time will be displayed in upper LCD.
2. Enter desired number and press ENTER button.
3. Once the REC button (number 9) is pressed, the data in LCD is stored continuously in memory at the specified sampling time. (the data is always kept even battery is removed later.). The REC symbol will be shown in LCD to indicate the status of recording. Maximum number of records is 2000.
4. To stop recording, press the REC button (number 9) again to stop recording. If users turn the power off without pressing the REC button (number 9), the data is lost. Because the information of last record is not stored. But if all 2000 records are stored, anemometer will stop recording and store the information of last record in memory.

3.10. To Read Data Stored in Memory Sequentially

1. Press the READ button (number 7) to read data stored in memory sequentially.
2. The RECORD NUMBER will be displayed in the upper LCD before the data is displayed. The data will roll over to the first record if the last record is read.
3. To exit READ mode, press RESET button (number 8).

3.11. To Read Data Stored in Memory Randomly

1. Once anemometer is in READ mode, users can still read a random record in memory.
2. Press SAMPLE button (number 0). and enter the record number (The anemometer is already in READ mode).
3. Press the READ button (number 7) then the desired record will be displayed in LCD.
4. To exit READ mode, press RESET button (number 8).

3.12. To Send Data Out to PC through RS-232C (AVM-07)

1. Holding the RS-232 button (number 1) while turning power on will enable RS-232 function. RS-232 symbol will be shown in LCD.
2. 15 bytes of data will be sent out to RS-232C port every one second.

Note: The RS-232 function will be automatically disabled, if continuously data recording is enabled.

3.13. The Data Format of 15 Data Sent Out to RS-232

- | | |
|--------|--|
| Byte1: | 0D (hex) |
| Byte2: | bit4: Velocity OL, bit5: Area OL, bit6: temperature OL. |
| Byte3: | 0: m/s, 1: ft/min, 2: knots, 3:km/hr, 4:MPH |
| Byte4: | bit2: MAX, bit3: MIN, bit4:0-VEL, 1:FLOW, bit5: 0-Degree C, 1-Degree F, bit7: RS-232 enabled. |
| Byte5: | bit0: 0-CMM, 1-CFC, bit3: Low Battery, bit4: temperature -OL, bit5: AVE, bit6: 2/3Vmax, bit7: Instant |
| Byte6: | Lower LCD decimal point.
bit0: x100, bit1: x10, bit2: x1, bit3: dp1 (right most), bit4: dp2, bit4: dp3 (left most). |
| Byte7: | Upper LCD decimal point
bit2: x1, bit3: dp1 (right most), bit4: dp2, bit5: dp3 (left most). |

Byte8:	Digit 3 (most significant) in upper LCD.
Byte9:	Digit 2 in upper LCD.
Byte10:	Digit 1 in upper LCD.
Byte11:	Digit 0 (least significant) in upper LCD.
Byte12:	Digit 3 (most significant) in lower LCD.
Byte13:	Digit 2 in lower LCD.
Byte14:	Digit 1 in lower LCD.
Byte15:	Digit 0 (least significant) in lower LCD.

3.14. Down Load Data to Personal Computer (AVM-07)

Press the D. LOAD button (number 5) to send all the data stored in memory to RS-232 port.

3.15. Data Format Stored in Memory

Byte0:0D (hex)	
Byte1:Calibration Data 0	
Byte2:Calibration Data 1	
Byte3:Calibration Data 2	
Byte4:Sampling Time	
Byte5:Last Record Number (low byte)	
Byte6:Last Record Number (high byte)	
Byte7:Free Area (low byte)	
Byte8:Free Area (high byte)	
Byte9:Decimal point of area(refer to byte 778)	
Byte10-768	Reserved
Byte769-784	Record 1(16 bytes per record)
Byte769:	Digit 0 (least significant) in lower LCD.
Byte770:	Digit 1 in lower LCD.
Byte771:	Digit 2 in lower LCD.
Byte772:	Digit 3 (most significant) in lower LCD.
Byte773:	Digit 0 (least significant) in upper LCD.
Byte774:	Digit 1 in upper LCD.
Byte775:	Digit 2 in upper LCD.
Byte776:	Digit 3 (most significant) in upper LCD.
Byte777:	Upper LCD decimal point bit2: x1, bit3: dp1 (right most), bit4: dp2, bit5: dp3 (left most).
Byte778:	Lower LCD decimal point. bit0: x100, bit1: x10, bit2: x1, bit3: dp1 (right most), bit4: dp2, bit4: dp3 (left most).
Byte779:	bit0: 0-CMM, 1-CFM, bit3: Low Battery, bit4: temperature -OL, bit5: AVE, bit6: 2/3Vmax, bit7: Instant
Byte780:	bit2: MAX, bit3: MIN, bit4:0-VEL, 1:FLOW, bit5: 0-Degree C, 1-Degree F, bit7: RS-232 enabled.
Byte781:	0: m/s, 1: ft/min, 2: knots, 3:km/hr, 4:MPH
Byte782:	bit4: Velocity OL, bit5: Area OL, bit6: temperature OL.
Byte783:	Not used
Byte784:	Not used
Byte785-32768	Record number 2 to Record 2000

4. Windows™ Application Program

4.1. Installation of the Windows™ Application Program

4.1.1. For Windows 3.1

- A. Start Microsoft™ Windows™
- B. Insert disk in drive A (or B)
- C. From Program Manager, select File menu and choose Run
- D. Type a:\setup (or b:\setup) and press Enter key

4.1.2. For Windows 95

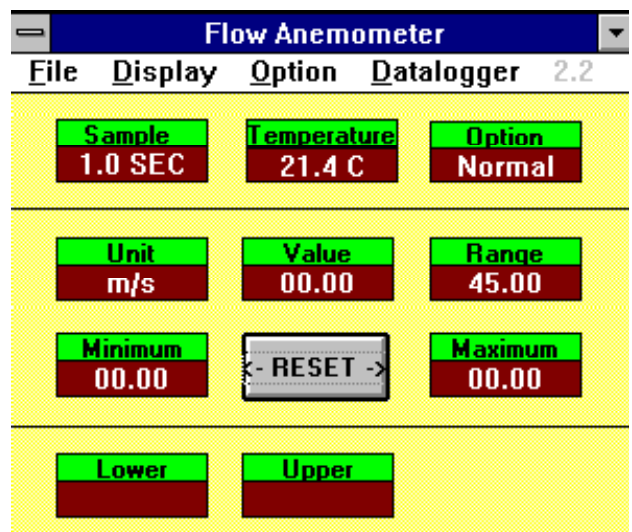
- A. Start Windows™ 95
- B. Insert disk in drive A (or B)
- C. Press START button, then select Run
- D. Type in a:\setup (or b:\setup) and press Enter key

4.2. Description of Windows™ Application Program

Main Window:

When the program is executed, the program automatically searches for connected anemometer or available serial port. If no serial port is available, then a message of "No communication port" will be displayed, and the program exits. Once communication port is setup, a main window will be displayed on the screen as below:

- Sample: The value under SAMPLE is the sampling time.
 Temperature: Temperature of air or wind.
 Option: Display option of anemometer. MAX, MIN, AVE, 2/3V max.
 Unit: Display units of velocity or flow (m/s, ft/min, knot, mph, kmh, CFM, or CMM)
 Value: The value under VALUE is the reading from the anemometer.
 Range: The text displayed under RANGE is the range of the unit selected at the anemometer.
 Minimum: The minimum value ever recorded by PC.
 Reset: Clear minimum and maximum value recorded.
 Maximum: The maximum value ever recorded by PC.
 Lower: The minimum value of the range specified.
 Upper: The maximum value of the range specified.



File: If you select File, a pull down menu will show six options: Name, Start Recording, End Recording, VIEW, Plot Data from File, and Exit.

Name: Enter file name to store data displayed in LCD at specified interval.

Start Recording: Start recording when selected

View					
File					
00:00:01.0	m/s	45.00	00.00	21.2 C	N
00:00:02.0	m/s	45.00	00.00	21.2 C	N
00:00:03.0	m/s	45.00	00.00	21.2 C	N
00:00:04.0	m/s	45.00	00.00	21.4 C	N
00:00:05.0	m/s	45.00	00.00	21.2 C	N
00:00:06.0	m/s	45.00	00.00	21.2 C	N
00:00:07.0	m/s	45.00	00.00	21.2 C	N
00:00:08.0	m/s	45.00	00.00	21.2 C	N
00:00:09.0	m/s	45.00	00.00	21.2 C	N
00:00:10.0	m/s	45.00	00.00	21.2 C	N
00:00:11.0	m/s	45.00	00.00	21.2 C	N
00:00:12.0	m/s	45.00	00.00	21.2 C	N
00:00:13.0	m/s	45.00	00.00	21.2 C	N
00:00:14.0	m/s	45.00	00.00	21.2 C	N
00:00:15.0	m/s	45.00	00.00	21.8 C	N
00:00:16.0	m/s	45.00	00.00	22.2 C	N
00:00:17.0	m/s	45.00	00.87	22.2 C	N

Blocks Read	1
Records Read	40
Chars./Record	71

Click at the list to re-align list

Current Block	1	Selected	1
00:00:01.0, m/s, 45.00, 00.00, 21.2 C, Normal, Batt O.K.			

End Recording: End recording when selected.

VIEW FILE:

If the View option under FILE in the Main Window is selected, a view window will be shown as above, and the users can review your ASCII data file. If a printer is connected to the PC, users can print out content selectively.

File: Open user's data file by selecting this menu. Users will be asked to enter file name. After the name being entered, program will read in one block of data. Number of records in one block depends on the memory size of PC. The bigger memory, the more records in one block.

Blocks Read:

Indicate how many blocks of records have been read.

Records Read:

Indicate how many records have been read.

Chars./Record:

Indicate how many characters in one record.

Current Block:

Indicate the current block number being reviewed.

Selected:

Indicate the current record number being selected.

Plotting Data from File

If the "Plot Data from File" option under FILE is selected in the Main Window, a Plot Window will be shown, and the users can plot curve of your data file. If a printer is connected, users can print out the curve.

File: Open the file to plot data from

Select: Select one of the items Velocity, Temperature, Flow, or Area to plot

Scale: Set the scale of Y-axis.

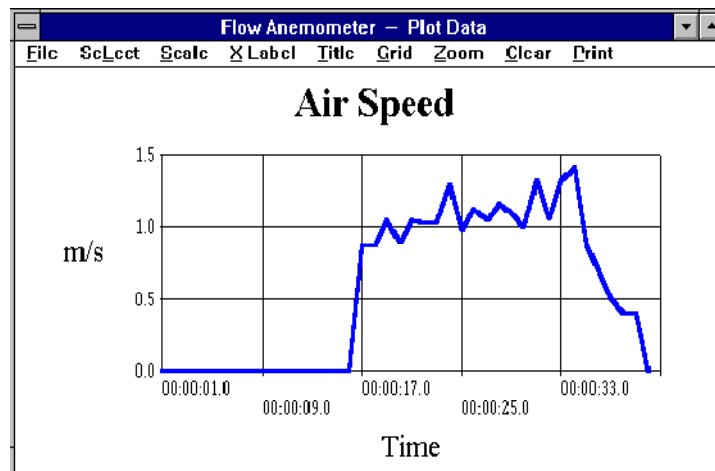
X Label: Users can select sequence number (1,2,3,4,...) or time (12:00:01, 12:00:05, ...) as X-axis label.

Title: Enter the title for X-axis, Y-axis, or Graph.

Grid: Draw Horizontal, Vertical grids or both.

Zoom: Zoom into the graph. The zoom size is limited to 3600 points.

Statis: Statistics. This function allows users to plot average value,



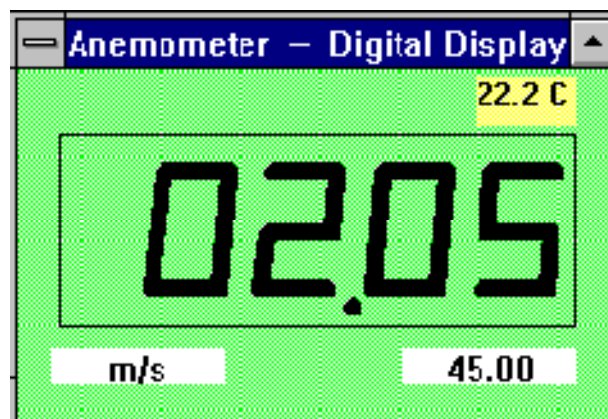
Standard deviation, best fit over the curve. This function is valid only when they are less than 3600 data. If there are more than 3600 data, STATIS will be disabled.

Clear: Clear the graphic screen.

Print: Print out the curve if a printer is connected to PC.

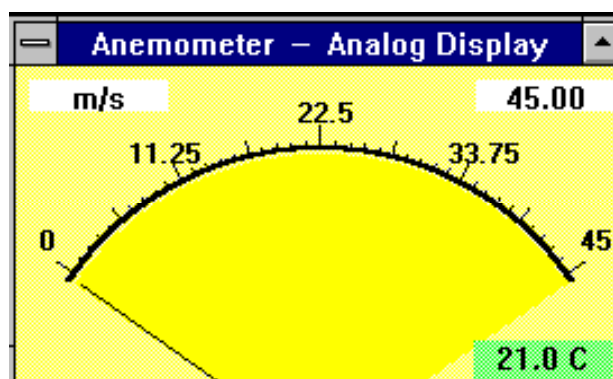
DISPLAY: DISPLAY menu has four options: DIGITAL, ANALOG, LIST, and GRAPHIC.

DIGITAL:



If this option is selected or CTRL+D are pressed, a window, which emulates multimeter's LCD display, shall appear on the screen.

ANALOG:



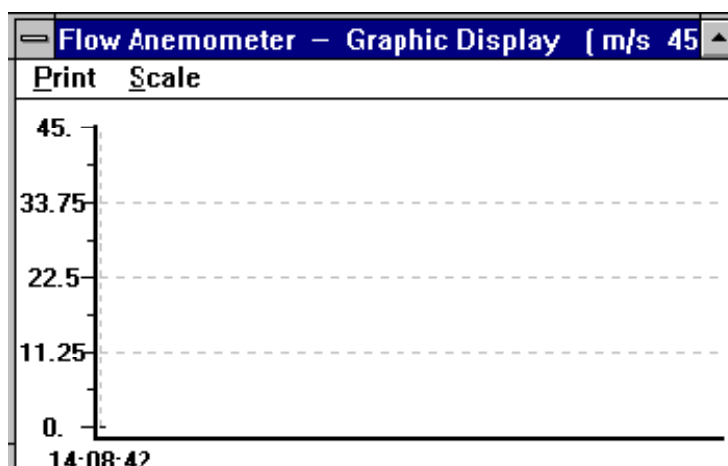
If this option is selected or CTRL+A is pressed, a window, which emulates an analog meter, shall appear on the screen.

LIST:

Flow Anemometer - List					
Time	Function	Range	Data	Area	
14:08:10.0	m/s	45.00:	00.00	21.0 C	Normal
14:08:11.1	m/s	45.00:	00.00	21.0 C	Normal
14:08:11.9	m/s	45.00:	00.00	21.0 C	Normal
14:08:13.0	m/s	45.00:	00.00	21.0 C	Normal
14:08:14.0	m/s	45.00:	00.00	21.0 C	Normal

If this option is selected or CTRL+L is pressed, a window, which lists the date, function, range, and value every sampling, shall appear on the screen.

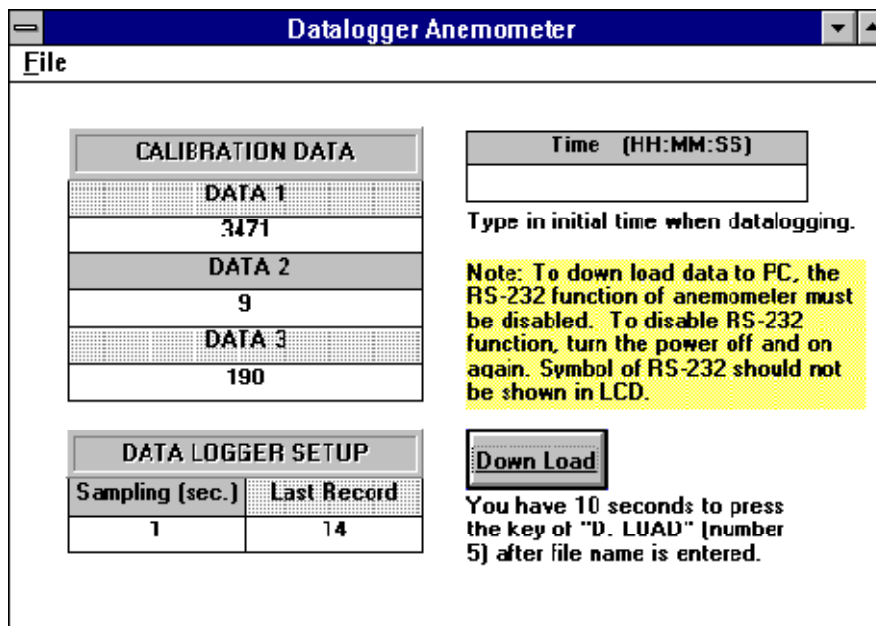
GRAPHIC:



If this option is selected or CTRL+G is pressed, a window, which emulates strip chart recorder, shall appear on the screen. The graphic window has two menus, PRINT and SCALE. Select the PRINT menu, the graphics will be printed through any printer connected to the PC. The SCALE menu allows user to set the minimum and maximum value for the Y (vertical) axis.

- Option:** If you select Option, a pull down menu will show three options: Sample Rate, Baud Rate.
- Upper Limit:** Enter upper limit. If upper limit is exceeded, a OVER message will be displayed in screen.
- Lower Limit:** Enter lower limit. If displayed value is less than lower limit, a UNDER message will be displayed in screen.
- Graphic Mode:** Select way of display in the graphic windows. Dot or BAR.
- Sample Rate:** Select this option to enter PC sampling time, or click at the SAMPLE on screen to enter sampling time.
- Baud Rate:** 9600.

Datalogger:



The screenshot shows the 'Datalogger Anemometer' interface with the following sections:

- CALIBRATION DATA:**

DATA 1
3471
DATA 2
9
DATA 3
190
- Time (HH:MM:SS):** An empty input field with the instruction: "Type in initial time when datalogging."
- DATA LOGGER SETUP:**

Sampling (sec.)	Last Record
1	14
- Down Load:** A button with the instruction: "You have 10 seconds to press the key of 'D. LOAD' (number 5) after file name is entered."
- Note:** A yellow highlighted box containing the text: "Note: To down load data to PC, the RS-232 function of anemometer must be disabled. To disable RS-232 function, turn the power off and on again. Symbol of RS-232 should not be shown in LCD."

CALIBRATION DATA:

They are the calibration data stored in memory of anemometer. They are used when returned for repair.

DATALOGGER SETUP:

They are the sampling time and total record numbers stored in anemometer.

Time:

This time will be used as initial time when converting data. This is a value entered by users.

Down Load:

When this button is pressed, program will ask the users to enter file name. After file name is entered, users have 10 seconds to press the key of D. LOAD (number 5) of anemometer.

When the D. LOAD key of anemometer is pressed, all the data stored in the memory of anemometer will be sent to PC. Program will convert all the coded data to a ASCII file under the name entered by users.

5. Specifications(23 ± 5° C)

Range of Wind Velocity:

Units	Range	Resolution	Threshold	Accuracy
m/s	0.0 - 45.0	0.01	0.3	±3% ± 0.1
ft/min	0 - 8800	2	60	±3% ± 20
knots	0.0 - 88.0	0.02	0.6	±3% ± 0.2
Km/hr	0.0 - 140.0	0.04	1.0	±3% ± 0.4
mph	0.0 - 100.0	0.02	0.7	±3% ± 0.2

m/s: meter per second

knots: nautical miles per hour

mph: miles per hour

ft/min: feet per minute

Km/hr: kilometers per hour

Unit Conversion table:



	m/s	ft/min	knots	Km/hr	mph
1 m/s	1	196.87	1.944	3.60	2.24
1 ft/min	0.00508	1	0.00987	0.01829	0.01138
1 knot	0.5144	101.27	1	1.8519	1.1523
1 Km/hr	0.2778	54.69	0.54	1	0.6222
1 mph	0.4464	87.89	0.8679	1.6071	1

Range of Temperature:

	Range	Resolution	Accuracy
° C	0 - 45.0	0.2	±1.0
° F	32.0 - 113.0	0.36	±1.8

Flow (Auto-range, CMM: 0 - 45.00 m/s, CFM: 0 -8800 ft/min)

	Range	Resolution	Area
CFM (ft ³ /min)	0 - 999900	0.001 - 100	0.001- 9999
CMM(m ³ /min)	0 - 999900	0.001 - 100	0.001- 9999

$$CFM (ft^3/min) = Wind\ Velocity(ft/min) \times Area(ft^2)$$

$$CMM (m^3/min) = Wind\ Velocity(m/s) \times Area(m^2) \times 60$$

- Bearing: Sapphire jewel bearing
- Temperature sensor: K-type thermocouple
- Mounting Nut: 1/4" x 20
- Operating Temperature: Meter: 0 °C ~ 50°C (32 °F ~ 122°F)
Vane: 0°C ~ 60°C (32 °F ~ 140°F)
- Operating Humidity: Less than 80% RH
- Operating Pressure: 500 mB ~ 2 Bar
- Storage Temperature: -40°C ~ 60°C (-40°F ~ 140°F)
- Power Consumption: Approx. 3 mA
- Battery Type: 9V
- Battery Life: 50 hours (for 300mA-hrs battery)
- Dimension:
 - Meter 3.46"x 6.61"x 1.03"(88x 168 x 26.2mm)
 - Vane 2.60"x 5.22"x 1.15"(66x 132 x 29.2mm)
- Weight: 12.34oz. (battery included)
(350g)
- Accessories: Carrying case x 1
Users manual x 1
9V Battery x 1

6. Battery Replacement

When the low battery symbol is displayed on LCD, follow the following procedures to replace the battery.

1. Turn off the anemometer by pushing the On/Off button.
2. Remove the screw of the battery compartment cover and remove the battery compartment cover.
3. Replace the old 9V battery with a new 9V battery.
4. Replace the battery compartment cover and fasten the screw.

NOTE: "This instrument doesn't have ATEX protection, so it should not be used in potentially explosive atmospheres (powder, flammable gases)."