



Kestrel® 4100 Pocket Air Flow Tracker

Quick Start

Please review the manual for more in-depth instructions and information about setup options.

Insert the 2 AAA batteries as indicated on the battery door.

After the Introduction Screen appears for 3 seconds, the Date/Time Setup Screen will appear. Set the correct date and time using ◀ and ▶ to adjust, and ▲ and ▼ to scroll.


Press ⏻ to exit the Date/Time Setup.


Press ⏻ again to exit the Main Menu.

The Date and Time Screen will appear.

Time fmt	12 Hr
Hour	8 pm
Minute	18
Second	21
◀ adjust ⏻ exit	

Tuesday
January 4, 2001
8:18²¹ PM

 WIND SPD mph
34.8


 AIR FLOW cfm
557
30.5 x 30.5 cm — set dimension

Press ▼ to scroll to the Current Velocity Screen.

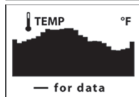
Press ▼ to scroll to the Current Air Flow Screen.

Continue pressing ▼ for current readings of: Temperature, Wind Chill, Humidity, Heat Index, Dewpoint, and User Screens 1, 2 & 3, which show three measurements you choose in the setup menu. Press ▲ to scroll through these screens in reverse order.

While viewing any of the Current Measurement Screens, press ▶ to view the Min/Max/Avg for the measurement. If there is no stored data, --. will appear.

 TEMP °F	
Min	32.4
Avg	67.9
Max	84.0

Press ▶ to view the Chart Screen for the measurement. If there is no stored data, the axis will appear but the chart will be blank.

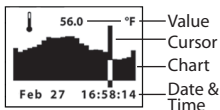


The factory setting for storing data, to be displayed on the Min/Max/Avg and Chart screens, is once per hour. You may choose a different interval in the setup menu.

Press ◀ to return to the Min/Max/Avg and Current Screens. From either Min/Max/Avg or Chart Screen, press ▲ or ▼ to see Min/Max/Avg or Chart Screen for the other measurements.

When the Chart Screen is displayed, press **—** to view the details of the chart data. A cursor will appear on the most recent data point. The date and time of storage will be displayed below the chart, and the data value will be displayed above the chart. If there is no stored data, only the cursor and the axis will appear.

Press **◀** or **▶** to review the data points.
Hold **◀** or **▶** to quickly scroll through the data.



Press **▲** or **▼** to view the data for the other measurements at the same date and time.

Press **—** to return to the normal Chart Screen.

Press **Ⓚ** to illuminate the backlight for one minute.

Press **Ⓚ** to manually store data.

Press **Ⓚ** to enter the Main Setup Menu.

Hold **Ⓚ** for 2 seconds to turn the unit off.

Air Flow

The Kestrel 4100 will display the volume air flow, based on the instantaneous air velocity and cross-sectional area of the opening through which the air is passing.

To set the dimensions of the duct or opening, press the **—** button while viewing the AIR FLOW screen. The DIMENSIONAL SETTING screen will appear with the word SHAPE highlighted.

Shape	Rect
Length	30.5 cm
Width	30.5 cm
◀ adjust — exit	

The shape of the opening can be selected by pressing the **◀** or **▶** button. The options are round or rectangular openings. Press the **▼** button to highlight the dimensional settings. For round openings, simply set the correct diameter of the opening. Use the **◀** and **▶** buttons to increase and decrease the value. Holding these buttons will increase and decrease the value quickly. For rectangular openings, set both the length and the width of the opening.

When the dimensional settings are correct, press the **—** button to exit the DIMENSIONAL SETTING screen and return to AIR FLOW screen. Place the Kestrel 4100 in the duct air flow. The displayed air flow value will be the result of multiplying the instantaneous air velocity measured by the Kestrel 4100 by the area of the programmed opening.

You may change the dimension setting and airflow units in the Main Setup Menu.