

Passport Keydiag Software

The purpose of this software is to allow easy visual and numeric analysis of the data captured by the key diagnostics in the Passport writer. You capture data by hitting +Z while writing, which captures the last ten seconds of sensor activity into the keydiag.dat file. This can be done multiple times during a job, but be aware that the more you do so, the longer it will take to sift through the results and analyze the data. Try to keep to just a few critical spots.

You save the KEYDIAG.DAT file by using the get log function, and the SENSOR.TXT file by backing up the key adjustments. Once you retrieve the removable media from the writer, make sure that the KEYDIAG.DAT file and the SENSOR.TXT file you're interested in examining are in the same folder. Without the sensor.txt, you won't see the min/reg/max lines. On the Passport,

Run the KeyDiag.exe program directly. It's a simple utility and doesn't require installation.

Click the GET DATA button, select the KEYDIAG.DAT file, and hit Open.

Select ONE OR MORE of the Passport keys listed on the left using click, Ctrl+click, Shift+click, etc. This will update the graph to show the data for all of the highlighted keys.

Note that even though you might have many keys highlighted, only ONE of those keys is the "current" selection in the listbox, shown by the dotted line in the box.

The "Raw" checkbox will fill the other listbox with the actual data values for the selected key. Turning this on slows down the process of selecting which keys you're examining and is not generally recommended. Seeing the actual values is much less useful than the graph. The graph does show approximate number ranges.

The graph area shows each key in a different color. Note that the entire program can be resized or maximized to see the largest possible amount of data and detail.

There is a vertical black bar for the current sensor reading. Moving the horizontal scroll bar will move all the way from the first reading to the last, with the current one always being centered.

At the top of the program you will see a line showing the current data point's actual value, followed by the minimum (top), registration and maximum (baseline) values for the currently selected key.

The data will be displayed as a series of black dots connected by SOLID colored lines, using a different color for each key. Also displayed in the same color is the following:

The DASHED horizontal line is the minimum (top)

The DASH/DOT horizontal line is the registration point

The DOTTED horizontal line is the maximum (baseline)

If you have the raw data displayed, the horizontal scroll bar and the selected data point in the raw data will synchronize, so changing one will change the other to match.

The + / - keys will change the zoom level horizontally

The V / ^ keys will change the zoom level vertically

Horizontal and vertical scroll bars allow you to view all of the data no matter what the zoom level in any direction, so you can get as close as you need to see the fine details of the sensor movements.

Note that the zoom levels and scroll bar positions don't change even when you change which sensors you're looking at, so you can compare multiple sensors at a particular point in time either simultaneously by highlighting all of them, or by zooming into the specific area you're interested in and clicking back and forth between the sensors.

On the graph, when a key crosses the registration point, the letter for that key will appear in the graph horizontally aligned with the exact point where it registered. The keys on the steno machine appear vertically. Note that these positions do not change when you change the vertical scroll bar, so for a better look at the key letters, you can zoom in and scroll the graph lines off the screen and just see the key letters. If you're looking for particular strokes that occurred during the test, you can turn on all of the keys and adjust the zoom level and you'll see the strokes appear from left to right, but remember that they'll be misaligned slightly due to differences in when your fingers crossed the registration points.