

# PORTACOUNT® ACADEMY

## TIPS & TOOLS

### SUSPICIOUSLY HIGH FIT FACTORS

APPLICATION NOTE RFT-016

#### Did you know that Fit Factors higher than 100,000 are often considered suspicious?

During the fit test, fit factor results above 100,000 on a full- or half-face mask may indicate a problem. Check for the following:

- Mask Fit Test Adapter incorrectly assembled
- Sample tube not positioned correctly inside the mask
- Twisted Sample Tube
- Blocked Sample Tube

Suspiciously high fit factors on a full- or half-face mask can easily be verified by running the Real-time Fit Factor Display. After the fit test has been completed, perform the following steps.

1. Ensure mask remains on the fit test subject's face after fit test is complete
2. Click on **Realtime Fit Factor** icon:

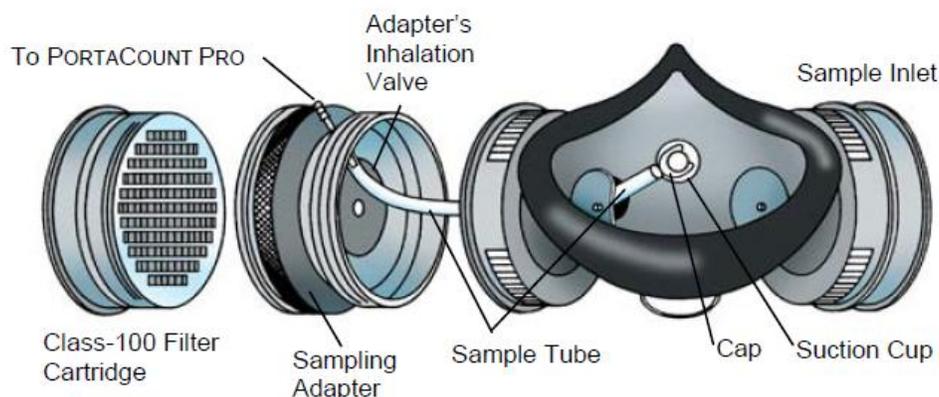


FitPro™ Software



FitPlus™ Software

3. Have the fit test subject purposely break the seal of the mask around their face by sliding an object (e.g., their finger) through the sealing surface. If the Real-time fit factor does not drop dramatically then you will need to check the mask fit test adapter set-up: Is the adapter assembled correctly? Is the tubing inside the mask twisted or blocked?

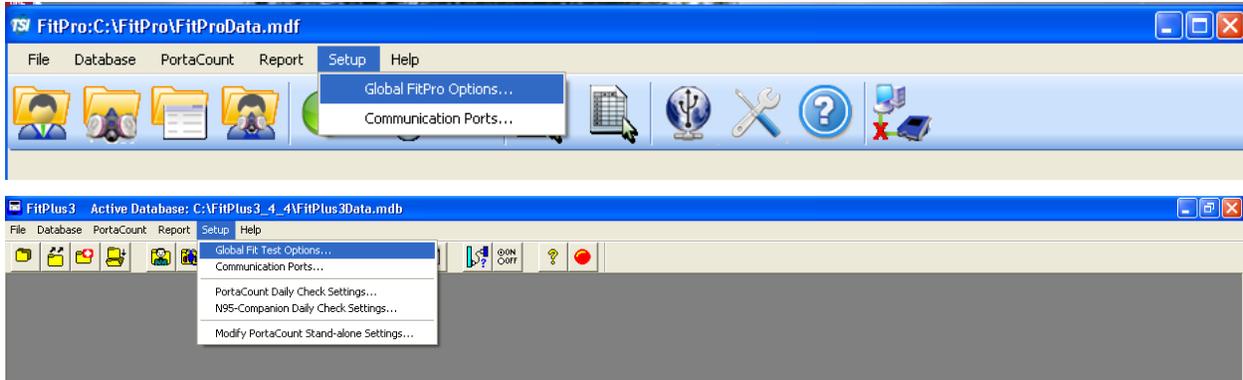


TSI recommends that you enable the “high fit factor warning” in your FitPro or FitPlus software. If this is enabled, a warning message appears when the fit factor for any exercise exceeds the value you enter (100,000 recommended). The fit test will continue despite the warning message. The purpose of the warning is to alert the fit test operator that something *may* be wrong and the procedure discussed above should be utilized.



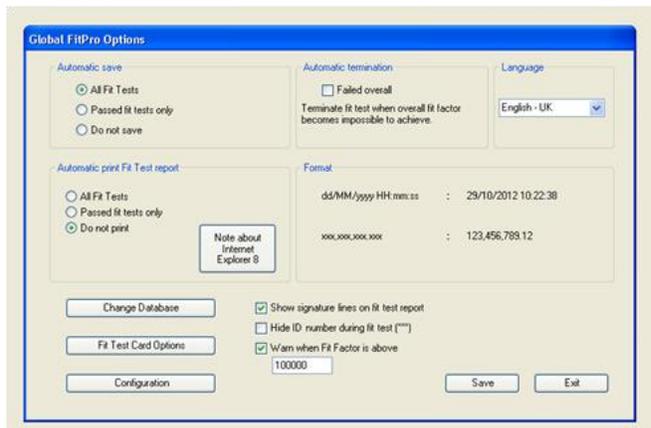
To Enable the Suspiciously High Fit Factor Warning follow these steps:

1. Select **Global Fit Test Options** from the **Setup** Menu:

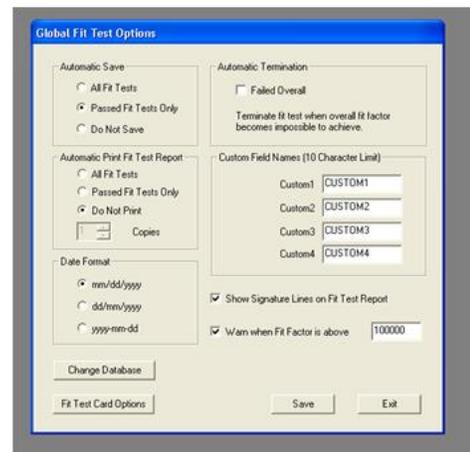


2. Check the box for “Warn when Fit Factor is above” and type “100000” into the text box, as shown below.

**FitPro software**



**FitPlus software**



3. Click **Save** and then **Exit**.

**Note:** This warning is only applicable to the FitPro and FitPlus software packages, and is not available in Stand-Alone operations of the PortaCount Pro/Pro+. During Stand-Alone operations the fit test operator should review the fit factors displayed to determine if the verification procedure should be performed.



UNDERSTANDING, ACCELERATED

TSI Incorporated – Visit our website [www.tsi.com](http://www.tsi.com) for more information.

<b>USA</b>	<b>Tel:</b> +1 800 874 2811	<b>India</b>	<b>Tel:</b> +91 80 67877200
<b>UK</b>	<b>Tel:</b> +44 149 4 459200	<b>China</b>	<b>Tel:</b> +86 10 8251 6588
<b>France</b>	<b>Tel:</b> +33 4 91 11 87 64	<b>Singapore</b>	<b>Tel:</b> +65 6595 6388
<b>Germany</b>	<b>Tel:</b> +49 241 523030		