# TSI Link™ Report Creator - Inhalation Exposure Grid Reports

Worksheet Guide (US)

## Contents

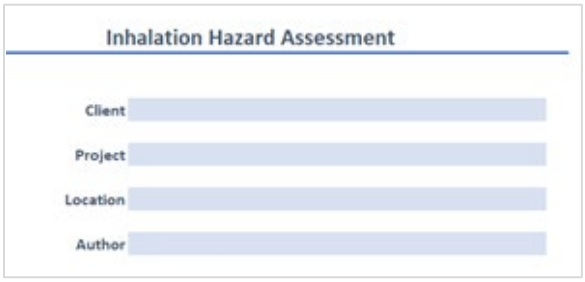


## Overview

The Inhalation Exposure workbook helps health and safety professionals assess inhalation hazards. The worksheet templates in this workbook are designed to make your exposure analysis efficient, accurate, and easy to understand with rich data visualizations. The reports in this worksheet calculate the Ceiling, STEL, and TWA exposure limits.

The Grid Reports are two of the worksheets available in the Inhalation Exposure workbooks. When an area to be analyzed is divided into grids, these reports compile the readings from each area in the grid. The reports are quick and easy to assemble.

# Grid Reports




The Grid – Relative Scale and Grid – Time Scale worksheets are part of the Inhalation Exposure workbook for **TSI Link™** Report Creator. These tools help industrial hygienists and safety professionals quickly visualize and compare contaminant levels across multiple monitoring points.

There are two grid report template worksheets in this workbook.

- **Grid – Relative Scale** creates a color-coded exposure map that highlights where contaminant levels are relatively higher or lower across space. This makes it easy to spot problem areas, track the impact of ventilation changes, or share findings during walkthroughs and safety briefings.
- **Grid – Time Scale** shows trends at each location over time, allowing you to pinpoint when exposures rise and fall, detect patterns such as periodic emissions, and confirm whether controls remain effective during different work activities.

These worksheets complement other Inhalation Exposure tools, such as Area Reports, but provide a faster, grid-based visualization ideal for screening, walkthrough surveys, and comparative exposure review.

*If you are new to Report Creator, check out the Report Creator Product Page for guides and videos including setting up an account, installing the application, using the study manager, using the layout view, customizing report creator templates, etc. This application guide builds upon and supplements those guides. This guide does not duplicate all of the content on those guides.*

# Inhalation Exposure Worksheets

The table below lists the worksheets available in the Inhalation Exposure workbook.

| Worksheet Template | Supported Measurements* | Supported Instruments | Examples of Applications |
|---|---|---|---|
| **Grid – Relative Scale** | Over 25 different gases or particulate measures | **OmniTrak™** Solution<br>**DustTrak™** II Monitor<br>**DustTrak™** DRX Monitor | Relative exposure levels analysis across work areas or rooms, usually done via a quick series of measurements. |
| **Grid – Time Scale** | | | Exposure levels and changes over time at each location; time synchronized. |

*

# Worksheet Steps

## Step 1 Select a Worksheet

The Inhalation Exposure workbook is one of many that are available. An overview of the workbooks available is on the Report Creator product page.

There are many different worksheets within this Inhalation Exposure workbook. This guide covers the Grid – Relative Scale and Grid – Time Scale worksheets. Guides for the other Inhalation Exposure worksheets can be found in the RESOURCES section of the Report Creator Product page.

## Step 2 Cover Sheet

This workbook contains a very simple Cover sheet that can be customized to suit your needs. For example, by adding your logo, customizing the font, or adding other information. See the *Customizing Report Creator Templates* to learn how. Other sheets can be added to your workbook, if desired.

## Step 3 Study Context: Demographic Information, Locations, Parameters

Once your worksheet is created, complete the study setup by entering the location names, operating conditions, date, and comments. Choose the required parameter to analyze and customize the exposure limits to fit your assessment criteria.

**Grid - Time Scale**

| | |
|---|---|
| Location | Break Room |
| Conditions | Monitored during lunch time |
| Date: | |
| Comments: | |

| Parameter: | Minimum Limit | Average Limit | Maximum Limit |
|---|---|---|---|
| PM 2.5 (ug/m3) | 0.10 | 5.00 | 10.00 |

## Step 4 Load Study Data

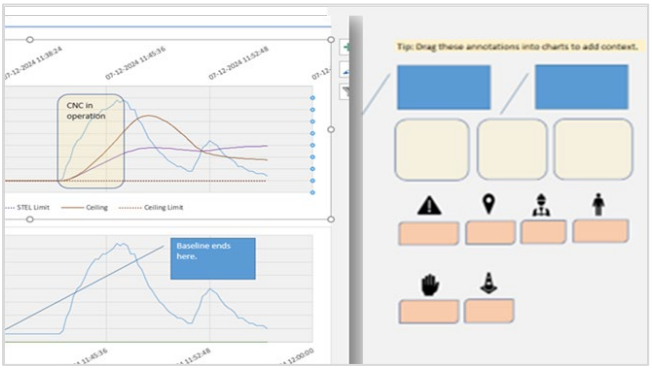
Load up to ten studies using STUDY MANAGER or File Import. *For background see the* Study Manager Guide.

Make sure the study names match the labels you added above. Swap study names if needed so data aligns with the correct grid positions. When ready, click **Add Data** to import data into the worksheet.

## Step 5 Analyze Data

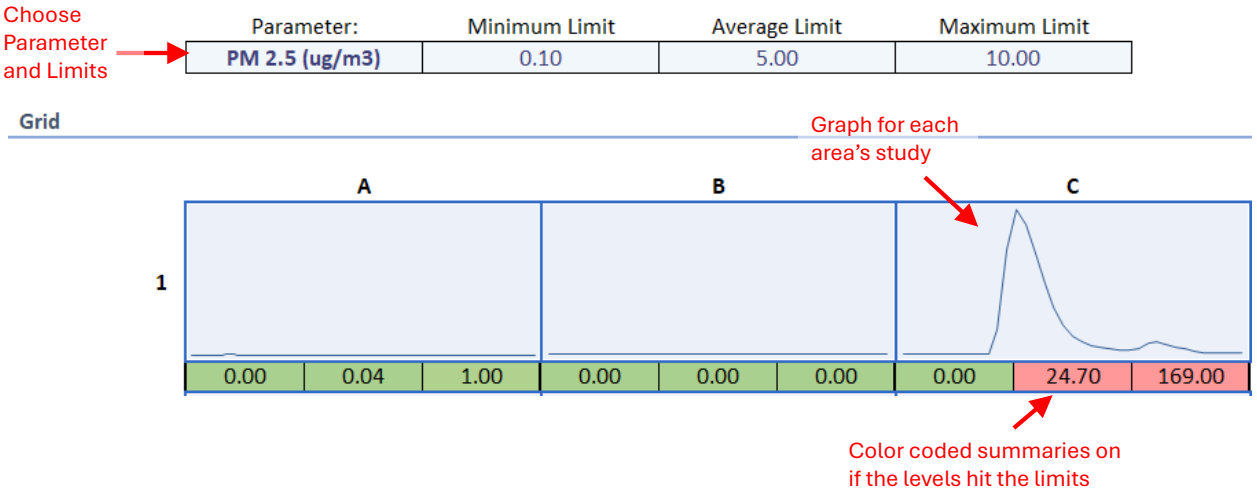
### Annotations Tools

You may wish to add additional context to the chart. This worksheet template contains a set of useful annotations outside of the printable range of the report, on the right side of the charts. These annotations can be simply dragged into the report. You can type information into the text boxes and position the line markers where you like.



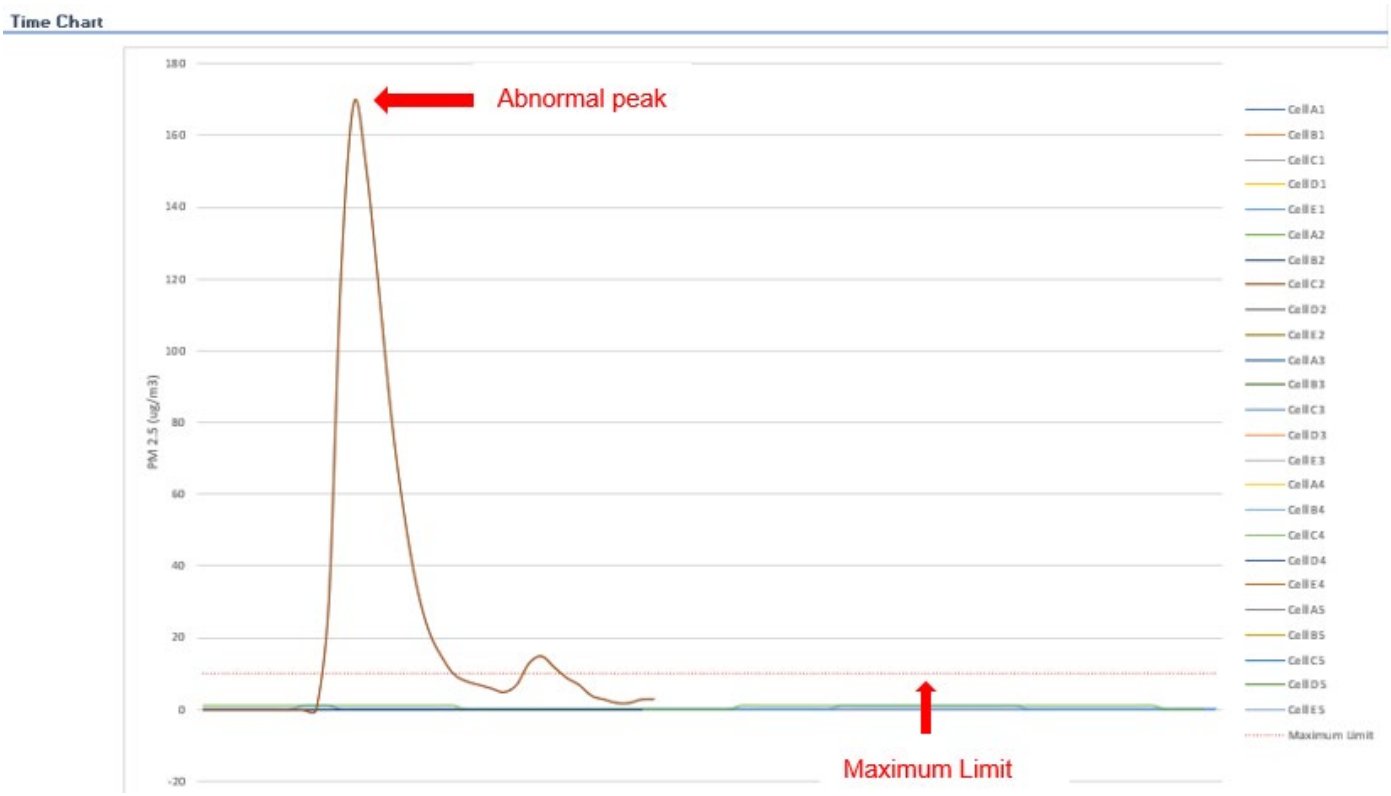

### Relative Scale Analysis

The Grid – Relative Scale view color-codes each cell based on measured contaminant levels relative to the highest reading in the dataset.
This is ideal for at-a-glance risk identification, leak detection, or quick walkthrough assessments. Cells exceeding target or control limits will automatically be highlighted.




## Time Scale Analysis

The Grid – Time Scale view plots time-based charts for each sampling location.
You can review exposure trends, peak events, or exceedances during a shift. Each mini time chart is linked to your data table and updates automatically as studies are loaded. You may add annotations such as callouts or arrows to highlight key peaks or abnormal readings using Excel's built-in drawing tools.



## Step 6 Complete the Assessment

To complete the report, you can add recommendations under the Conclusions section.

The print layout for this sheet does not include the measurement data in the blue tables at the bottom of the sheet. They will not appear in a PDF export either.



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