TSI Link™ Report Creator – Basic Analytics Multi Parameter Chart Report



Worksheet Guide (US)

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Overview

The Multi Parameter Chart worksheet allows you to combine multiple measurements from multiple devices onto a single chart so the interaction and comparative dynamics of them can be more easily seen. It is a dynamic report that can be used in many situation and with many devices

Appendix A – Available Parameters5

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 those guides, it does not duplicate them.

Worksheet Templates

This guide covers the worksheet below.

Worksheet	Supported Measurements	Supported	Examples of
Template		Instruments	Needs/Applications
Multi Parameter Chart	Select up to three measurements from a list of 30, which is in Appendix A.	OmniTrak™ Solution DustTrak™ Monitors Q-Trak™ XP Monitor	✓ Comparing trends for two or more pollutants in an area✓ Complaint Troubleshooting

For other types of reports, the Report Creator Product Page has:

- A matrix of the workbooks that have high level groups of reports.
- Detailed Guides to all the reports in the Resources section. This includes guides to other Basic Analytics worksheet reports: Data Table, Control and Trends Report, and Correlation Report.

Worksheet Operation

These worksheet templates have similar structure. This section outlines the basic operating steps for them.

Step 1 Select the Worksheet

In Microsoft® Excel® software, click on Report Creator Icon in your Microsoft® Excel® Home Menu Ribbon.

Select the Basic Analytics Workbook, then select the Multi Parameter Chart Worksheet.

Note that the Basic Analytics Workbook is one of many that are available. To better understand the options, an overview of the workbooks available is on the Report Creator product page.

Step 2 Cover Sheet

This workbook contains a simple Cover sheet that can be customized to suit your needs. See the *Customizing Report Creator Templates* in the RESOURCES section on the <u>Report Creator Product Page</u>.

Step 3 Enter Demographic Information, Select Parameters

After creating a Multi Parameter Chart worksheet, you can enter the demographic information.

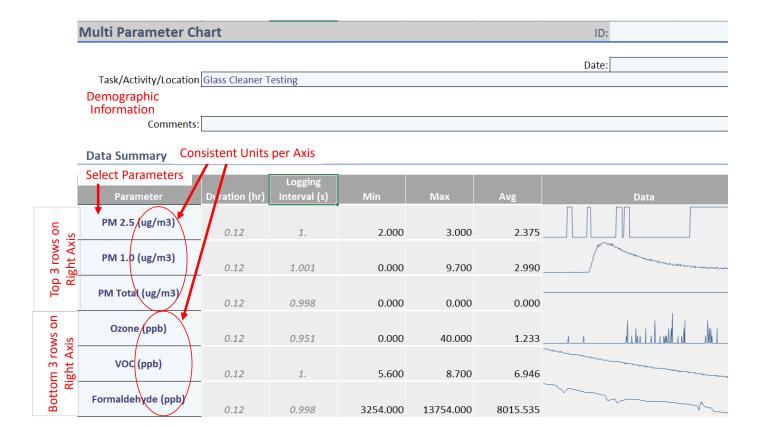
Select Parameters

Select the measurements you wish to report on. Up to six measurements can be charted together. They are configured in the *Parameter* column of the Data Summary table.

- The top 3 measurements will be displayed against the *left* vertical axis of the chart. They should all have the same unit of measure. For example, include measures all with ppm would make sense, mixing ppm measures with ug/m³ measures would not make sense. The left axis will use the first parameter for its units.
- The bottom 3 measurements will be displayed against the *right* axis. Use the same units and the first of this set will be used for the charts units.

You should arrange your measurements with expected peak values in mind. For example, Carbon Monoxide is generally less than 100 ppm, while a Particle Number count could be over 1,000,000 #/m³. You should plot them on opposing axes so that both are visible on the chart.

You may also enter other information about the test in the header fields.



Step 4 Import Study Data

To Import a study using *STUDY MANAGER* or *File Import*. Make sure the study names match the measurement labels. Swap them if necessary. When ready, click **Add Data** to import data into the worksheet.

NOTICE

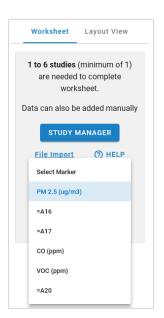
If a single study contains multiple measurements that need to be plotted, you will need to import them one at a time. For example, if you want to plot PM 2.5 and PM 10 from the same study, import the study and assign it to PM 2.5. Then import the same study again and assign it to PM 10.

Also note that any unconfigured measurement slots in the table will have empty cell references displayed, such as "=A16".

Data files are typically loaded via the <u>Study Manager</u> This feature securely saves and backs up the data and makes it easier to move data from the devices to the Report Creator Application. Alternatively, data can be Imported.

NOTICE

The *Layout View* functionality is not supported in this Multi Parameter Chart Worksheet.



Step 5 Analyze Data

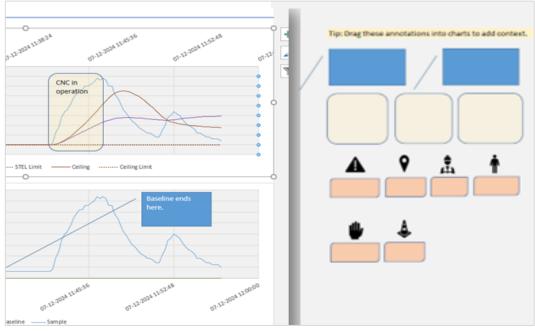
A statistical summary is shown, including a simple sparkline chart of the measurement, the minimum, the average, and maximum value.

The data are also plotted against their configured axis as shown in the example below.

You may wish to add additional context to the chart. Refer to <u>Annotation Tools</u> below for more information.

Annotation Tools

These worksheet templates contain 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.

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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55	Conclusions
56	
57	Findings:
58	
59	Recommendations:
60	
61	

Appendix A - Available Parameters

Below is a list of the 30 parameters available for these workbook templates.

Metric	Units	
PM 1.0 (ug/m ³)	MICROGRAMS_PER_CUBIC_METER	
PM 2.5 (ug/m ³)	MICROGRAMS_PER_CUBIC_METER	
PM RESP (ug/m ³)	MICROGRAMS_PER_CUBIC_METER	
PM 10 (ug/m ³)	MICROGRAMS_PER_CUBIC_METER	
PM Total (ug/m ³)	MICROGRAMS_PER_CUBIC_METER	
PM 1.0 (mg/m ³)	MILLIGRAMS_PER_CUBIC_METER	
PM 2.5 (mg/m ³)	MILLIGRAMS_PER_CUBIC_METER	
PM RESP (mg/m ³)	MILLIGRAMS_PER_CUBIC_METER	
PM 10 (mg/m ³)	MILLIGRAMS_PER_CUBIC_METER	
PM Total (mg/m ³)	MILLIGRAMS_PER_CUBIC_METER	
NC 0.3 - 0.5 (#/m ³)	COUNT_PER_CUBIC_METER	
NC 0.5 - 1.0 (#/m ³)	COUNT_PER_CUBIC_METER	
NC 1.0 - 2.5 (#/m ³)	COUNT_PER_CUBIC_METER	
NC 2.5 - 4.0 (#/m ³)	COUNT_PER_CUBIC_METER	
NC 4.0 - 10 (#/m ³)	COUNT_PER_CUBIC_METER	
NC 0.3 - 0.5 (#/ft ³)	COUNT_PER_CUBIC_FOOT	
NC 0.5 - 1.0 (#/ft ³)	COUNT_PER_CUBIC_FOOT	
NC 1.0 - 2.5 (#/ft ³)	COUNT_PER_CUBIC_FOOT	
NC 2.5 - 4.0 (#/ft ³)	COUNT_PER_CUBIC_FOOT	
NC 4.0 - 10 (#/ft ³)	COUNT_PER_CUBIC_FOOT	
CO ₂ (ppm)	PARTS_PER_MILLION	
Formaldehyde (ppb)	PARTS_PER_BILLION	
CO (ppm)	PARTS_PER_MILLION	
SO ₂ (ppb)	PARTS_PER_BILLION	
Ozone (ppb)	PARTS_PER_BILLION	
NO ₂ (ppb)	PARTS_PER_BILLION	
CL (ppm)	PARTS_PER_MILLION	
NH ₃ (ppm)	PARTS_PER_MILLION	
VOC (ppm)	PARTS_PER_MILLION	
VOC (ppb)	PARTS_PER_BILLION	



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