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AUTO Data Analysis

The Metrosoft PQ software has a powerful data analysis feature. This feature allows you to automatically analyze the recorded data and see what parameters are out of requirements.

To use this feature the nominal recorded voltage and frequency needed to be entered. However these values can change from recording to recording.

A new AUTO option has been added to the data analysis screen.

Set the Nominal voltage and Nominal Frequency to "Automatic".

| Close |] | 0 | | | | |
|--|--|--|--|--|--|--|
| Default Configurations Delete Save Load Select Configuration Configuration Configuration | | are use. alysis parameters. I selected from the drop down box. | | | | |
| Voltage Limits Narrow Limit Tolerance Negative % 10.00 Positive % 10.00 Wide Limit Tolerance Negative % 15.00 Positive % 15.00 | | | | | | |
| Unbalance Narrow Limit Tolerance +/- % 2.00 | Flicker Narrow Limit Tolerance | THD Narrow Limit Tolerance +/- % 8.00 | | | | |
| Wide Limit Tolerance +/- % 3.00 | Wide Limit Tolerance | Wide Limit Tolerance +/- % 10.00 | | | | |
| Harmonic Limits | Frequency Tolerance 99.5% Negative % Tolerance 100.0% Negative % | 1.00 Positive % 1.00 2.00 Positive % 2.00 | | | | |

The software will now examine the recorded data and determine the overall voltage and frequency. These values will then be used as reference values for the analysis. This makes the analysis much easier. Simply set your desired limits or select a standard and set the voltage and frequency values to AUTO.

When you want to do a data analysis, simply select the data file and the template.

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Application Note

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The same is true when generating a report.

Select the data file then select the data analysis template and create the report.

| Create | Font | Save As Text | << Section | Section >> | \rightarrow | |
|--|---|--------------|---|----------------------|---------------|--|
| Report Type Tabular: V/I D Phase to Phase Tabular: Dem Out 0F Limits: Summary and Exceedance: Weekly Energ Total Demand THD Wavefor Frequency IEC Unbalance Total Harmoni EN50160 | e Voltage and Data Brief Setup //I Data Demand Data y m Analysis | | sult Configurations EE519_1159 AUTO. MERE519_1159 JEEE519_1159 JE50160.tpt EE519_1159 AUTO EE519_1159 AUTO Include CBEMA C | tolt naling Graph | | |

You can set the default analysis template in the preference screen to make the process faster. You can then simply select the data file then click on the "Preferred Analysis" button and the analysis is created.

| Preferences | | | | | |
|---|--|--|--|--|--|
| Display Reports Charts Select your preference for the following items for use in the application. Charts Charts | | | | | |
| DIP / SAG | Sag | | | | |
| Voltage Label | V | | | | |
| Voltage Selection | 120 💌 | | | | |
| Date Format | mm/dd/yy 💌 | | | | |
| Time Format (hours) | 12 | | | | |
| Analysis Shortcut | Def_EN50160 ▼ Def_EN50160 Def_IEEE519_1159 EN50160.tpit IEEE519_1159 AUTO.tpit | | | | |
| Save | Cancel | | | | |

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