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Knowledge Base Article

Product Group: Multilog On-line Systems; Software
Product: IMx; CMSW7400 - @ptitude Analyst
Version: N/A; 7.0.152.0

Abstract

The SKF Multilog IMx Acceleration Enveloping (gE) measurement setup in @ptitude Analyst allows the user to choose between **Peak**, **Peak to peak**, **RMS**, ***True* peak** and ***True* peak to peak** Detection methods, as shown in Figure 1:

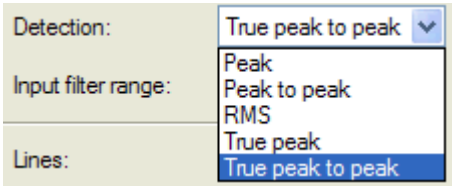

Figure 1. Detection methods

Prior to @ptitude Analyst 2012, if **Peak** or **Peak to peak** detection methods were chosen, then the IMx would calculate the Acceleration Enveloping gE Trend Overall value from the Frequency/Spectrum, using an RMS calculation, then scaling to obtain the "scaled" Peak or Peak to peak value. This article describes the change in behavior that was implemented in @ptitude Analyst 2012.

Overview

In SKF @ptitude Analyst 2012 (v7.0.152.0) a permanent change was implemented - as part of OTD #4342 - to the IMx Service which will now force IMx gE measurements previously configured for **Peak** or **Peak to peak** to be collected as ***True* peak** or ***True* peak to peak**.

What this means is that IMx customers who currently have their gE measurements configured as Peak or Peak to peak, will now begin to see very significant increases to their Acceleration Enveloping (gE) trends. Also, Alert and Danger levels previously set up for the earlier configuration will need to be adjusted accordingly based on this change.

Customers who were already using ***True* peak** or ***True* peak to peak** will **NOT** experience any changes.

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SKF has always recommended the use of ***True* peak to peak** detection for certain measurements types, those types specifically being **Acceleration Enveloping (gE)** and pure **Displacement (mils/µm)**.

The reason for this is because the Trend Overall value obtained from the Time Domain provides a much better representation of the defect severity than the Overall value obtained from the Spectrum, where these defects signals can be averaged out as a result of the RMS process.

All SKF Micrologs and previous On-Line systems (CMU, LMU, TMU, WMx, etc.) also use True Peak and True Peak-Peak detection for Acceleration Enveloping (gE). Therefore, the IMx data will now be consistent with the gE data collected with other SKF equipment.

For further assistance, please contact the Technical Support Group by phone at 1-800-523-7514 option 8, or by email at TSG-CMC@skf.com.