`

Knowledge Base Article

Product Group: Software
Product: CMSW7400 – @ptitude Analyst
Version: 8.0 (2013 Edition)

Abstract

In SKF @ptitude Analyst, phase values seem to shift from those shown in the Microlog Analyzer. This article explains why.

Overview

In SKF @ptitude Analyst 2013 Edition, the implementation of Scientific and Standard Angular Axis View was changed for phase angle illustration of Polar and SCL plots.

To toggle this setting in SKF @ptitude Analyst, go to the Customize > Preferences > General tab and change the Angular Axis View setting.

Angular Axis View

The Angular Axis View determines the 0 degree reference point to define probe placement for Orbit, Bode, and Nyquist plots. Choose Scientific or Standard (applies to SKF @ptitude Analyst only).

- Scientific – All internal calculations use the scientific mode. In scientific mode, the 0 degree reference point is at the 3 o'clock position. Measures from 0 to 360 degrees. [Figure 1]

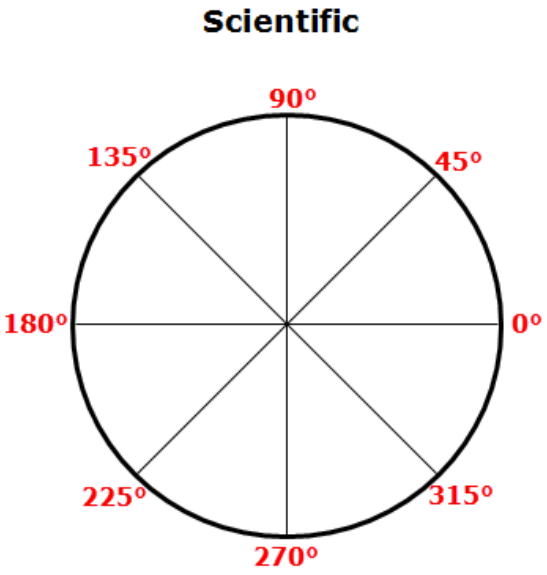

Figure 1. Scientific mode

`

- Standard – For viewing purposes only. In standard mode, the 0 degree reference point is at the 12 o'clock position. Measures from 0 to +/- 180 degrees. [Figure 2]

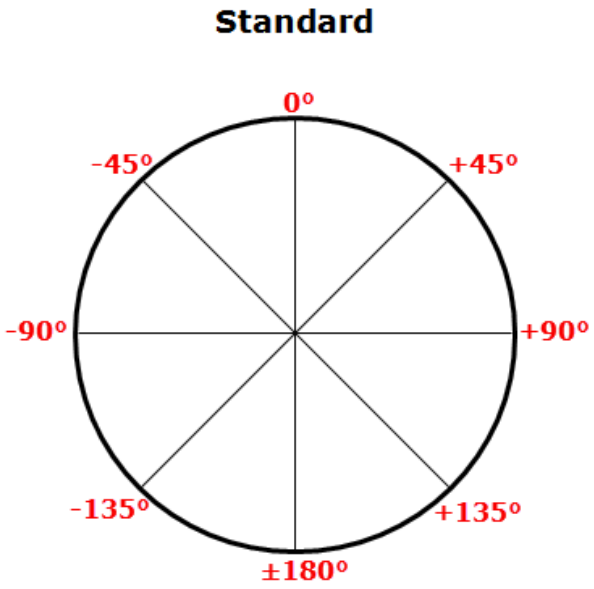

Figure 2. Standard mode

The Angular Axis View setting can have an affect on the Microlog Analyzer phase values reported by @ptitude Analyst.

If the Angular Axis View option in @ptitude Analyst is set to Standard, there can and will be different phase values reported by @ptitude Analyst, in comparison to the values collected and stored by the Microlog Analyzer. For example, a phase value collected and stored by the Microlog as 225° would result in an @ptitude Analyst value of -135° when the Angular Axis View is set to Standard. However, changing this setting from Standard to Scientific will result in the same phase value as shown the Microlog -- 225°.

Microlog Analyzer users most likely want to see the phase angle values displayed as 0 to 360 degrees; therefore, ensure the Angular Axis View is set to Scientific.

For further assistance, please contact the Technical Support Group by phone at 1-858-496-3627, or by e-mail at TSG-CMC@skf.com.