

Migration of LabVIEW into the Test of magnetic Properties

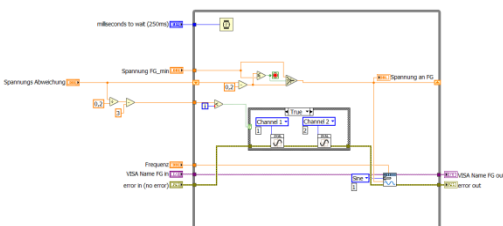
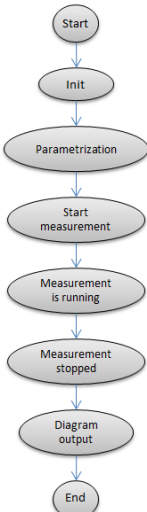
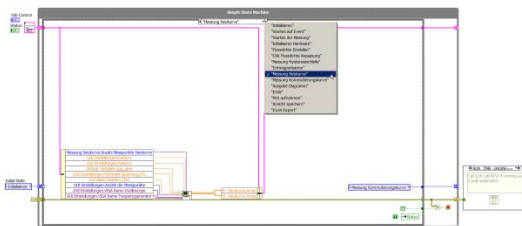

Marc Schnaitmann, Till Schwaderer, Smiljan Mahkovec, Jan Philipp Grünwald, Christian Meier
Prof. Dr. Helmut Förschner, Uwe Weidlich, Markus Salamon – SS 2017

Summary

This project deals with the migration of a measuring-system for magnetic properties in a new environment. Main task of this project was the mapping of Pascal-Code into the graphical coding language of LabVIEW. Further work was done regarding enhancing the program by code optimizations as well as the implementation of some new features (e.g.: overcurrent protection, graphical user interface ...). The result is a more user-friendly and reasonable code for the latest hardware that can be used to identify the main characteristics of transformer sheets.



The Project

Subroutines Virtual Instruments	Flow Chart	Simple State Machine
<ul style="list-style-type: none">» hardware communication» mathematical operations» plotting 		<ul style="list-style-type: none">» All states set up according to the flow chart» Used for triggering events 
Graphical User Interface (GUI)		Plot View
<ul style="list-style-type: none">» 3 tabs (main view, options, plot view)» fully functional without the LabVIEW software 		<ul style="list-style-type: none">» overview about all properties» can be saved in different ways 