

TECH NOTE :: Demo software to read and write consistent data via EtherCat with TwinCat and visualize measurement in numerical and graphical format

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 Status: External

Short description

This short example considers a simple software demo for the PMX amplifier connected to a Beckhoff plc type CX1020.

Introduction

In this example, consistent (coherent) data are written and read via EtherCat.

As an additional programming the example contains an easy visualization for the measuring values in a numerical and graphical format.

Connection

The PMX is equipped with EtherCat interface and measuring boards PX878 (slot1), PX455 (slot2) (strain gauge sensors e.g. force) and PX401 (slot3) f(analog signals +/-10V or +/-20mA).

Connect the CX1020 with RJ45-cable to the PMX EtherCat-interface board PX01EC (slot0). Power on both devices.

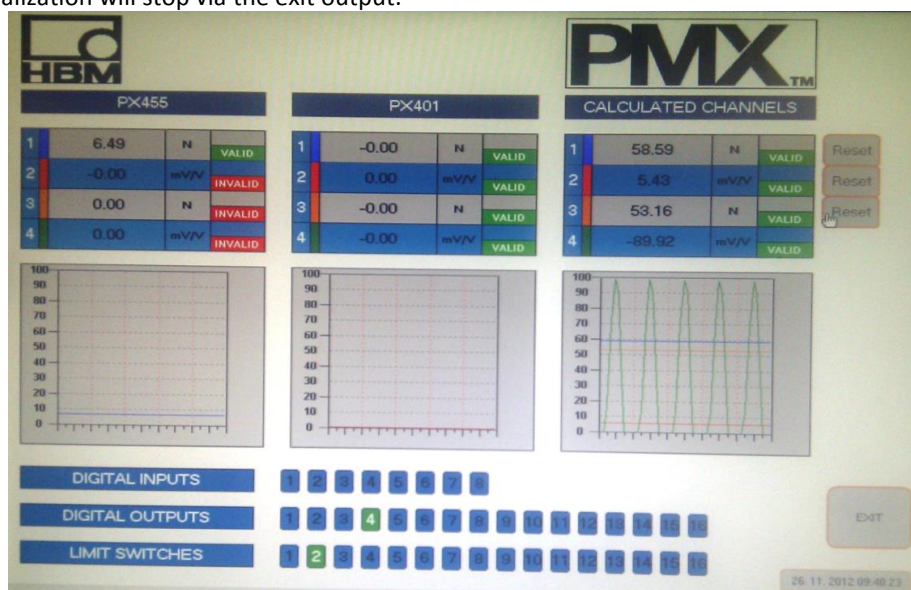
Program Start

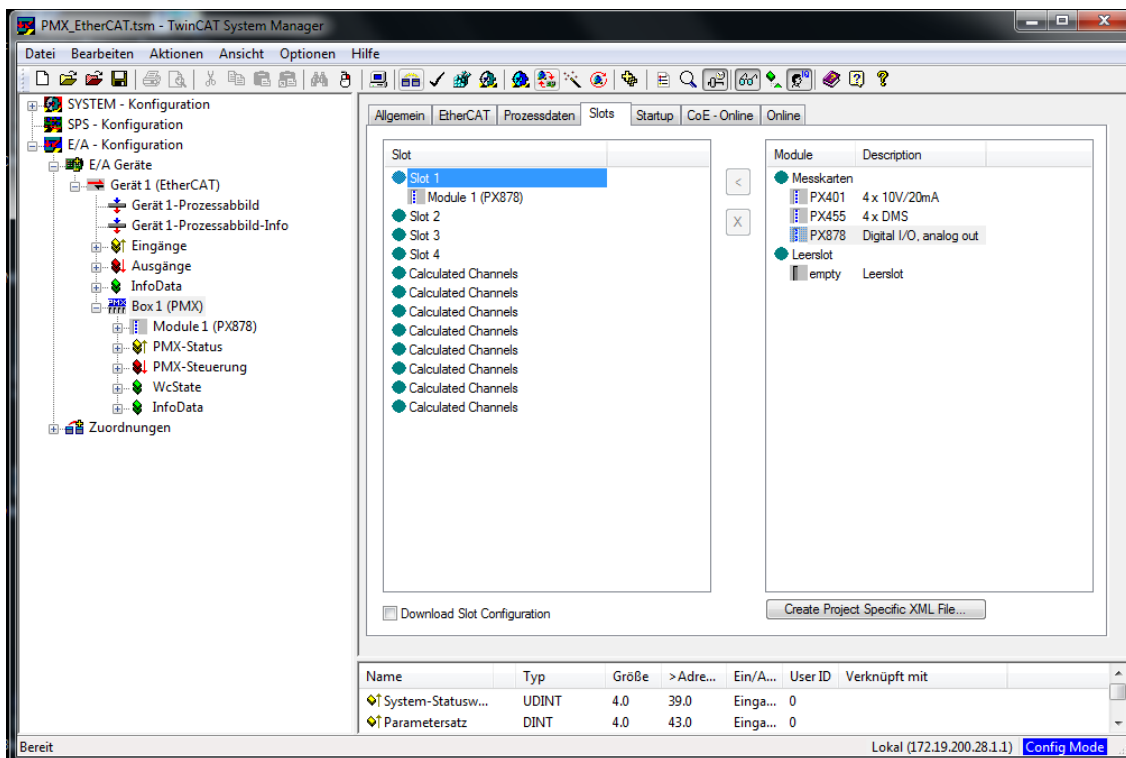
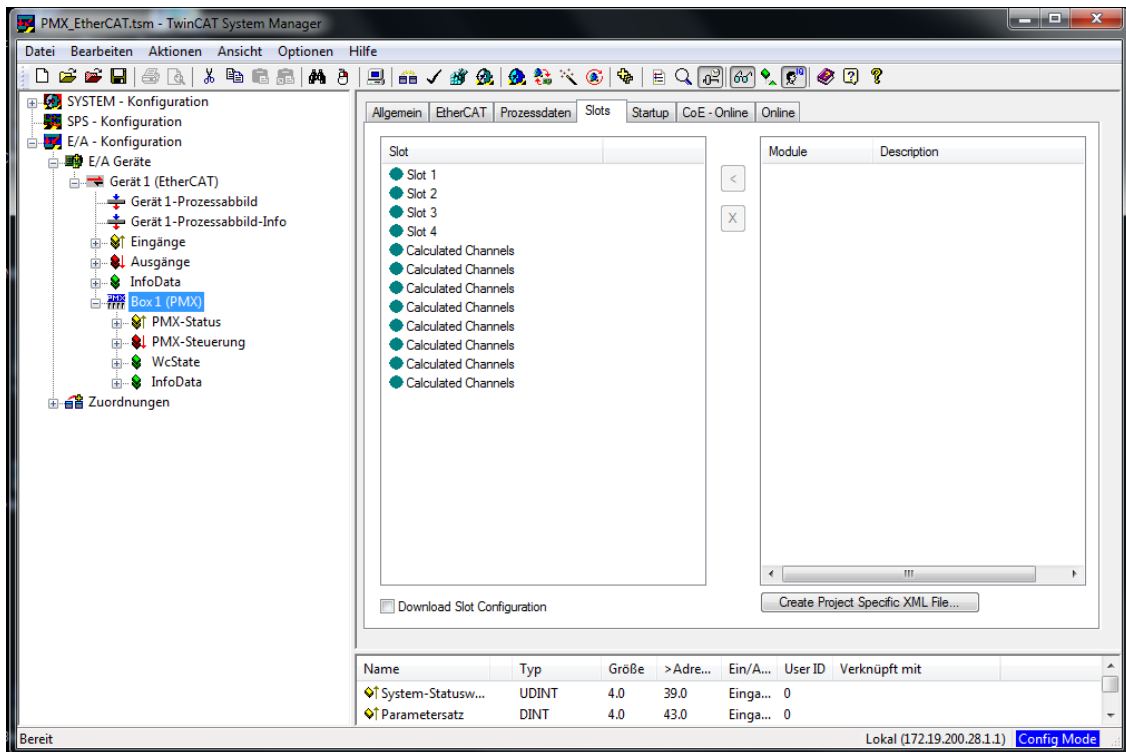
Start TwinCat and open the demo-project (PMX_Messe_23112012_Neu.pro), boot project, transfer it to the PLC and start it.

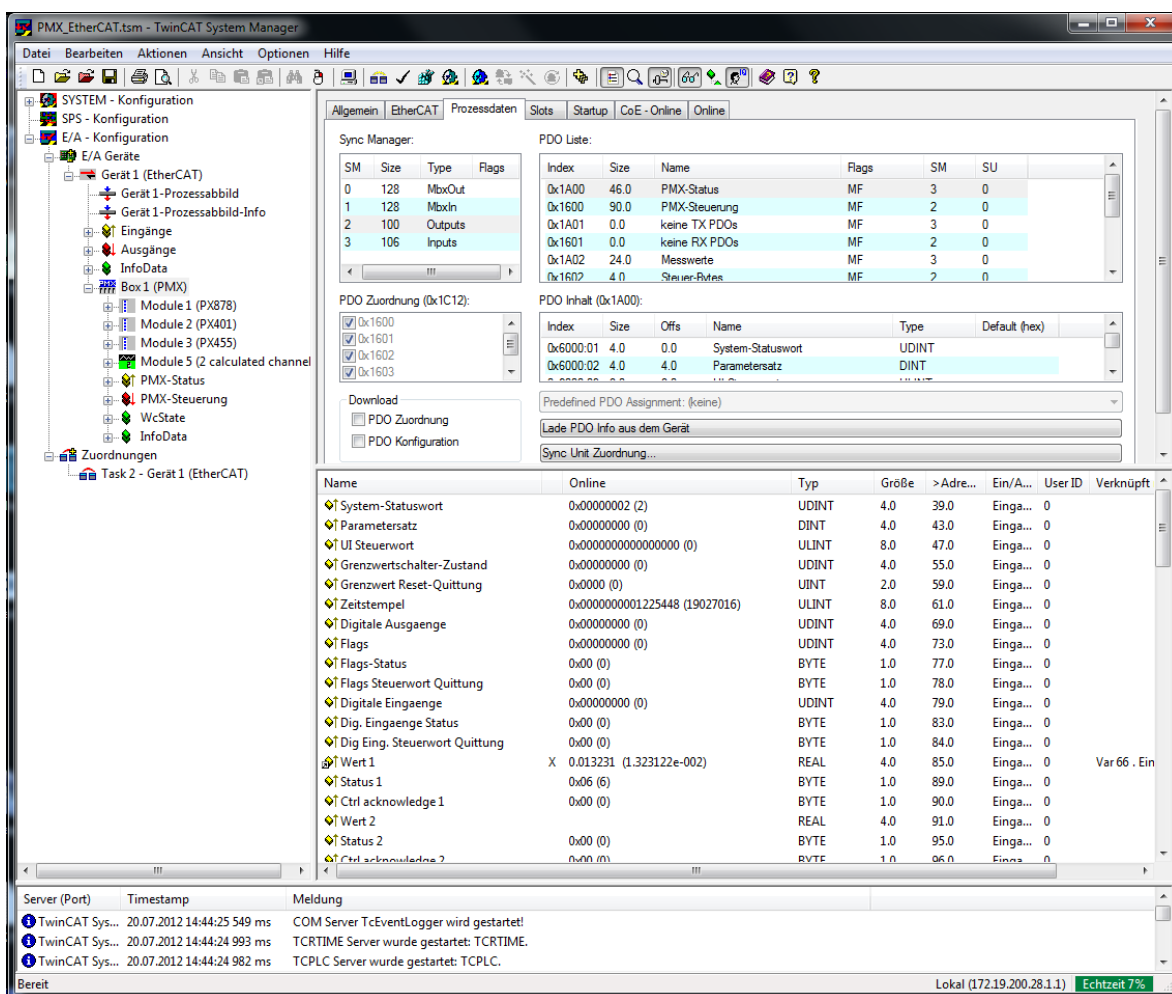
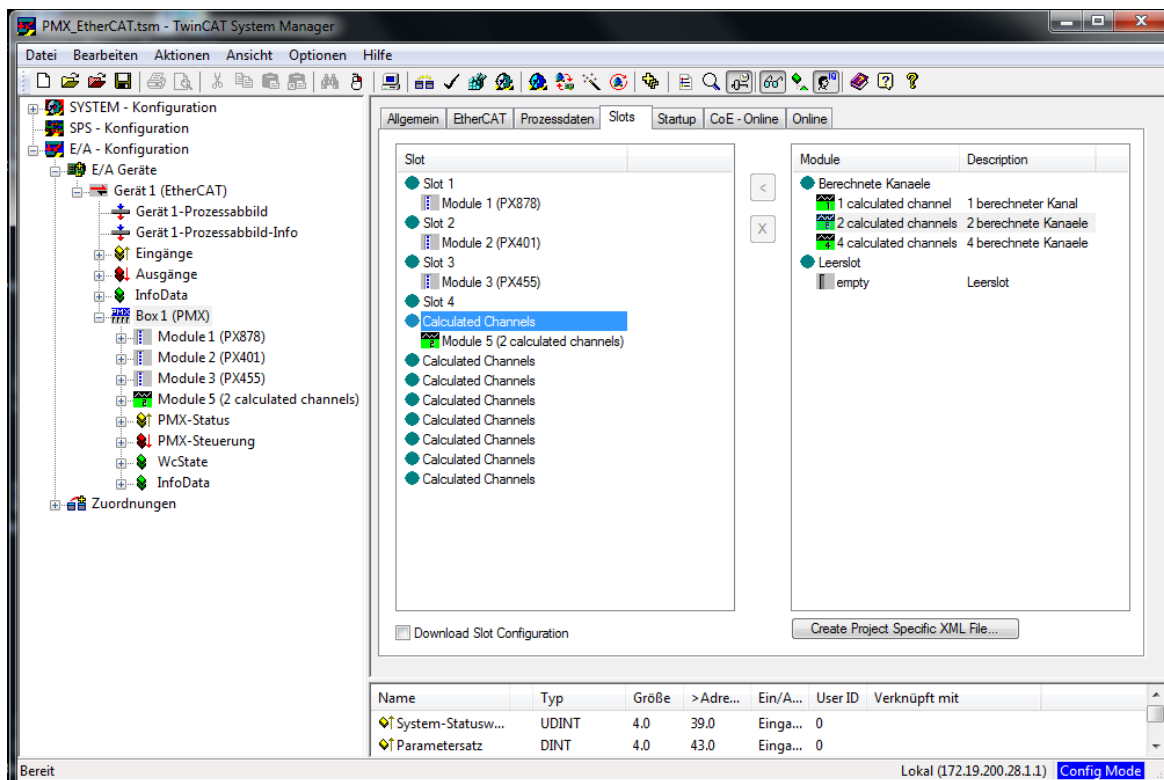
A click on the unit of a value, a new unit can be selected. Click on a reading, then this is represented as a single trend. By clicking on the trend or the selected measured value returns the visualization back to the main menu. Switching to single trend of another reading - simply click on reading.

Program Stop

The visualization will stop via the exit output.









Disclaimer

The example given is intended to illustrate the integration of PMX into Beckhoff TwinCat software via EtherCat. This example does not imply any warranty or guarantee.