**Project description**

# Test cabinets for capacitors

**Task:**
A test cabinet control system for a world-leading test equipment supplier.

The DUT, measuring instruments, process and test parameters were specified. All devices should be controlled fully automatically, as the test may take several weeks.

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**Tasks:**

- Control system selection
- Software development
- Graphical representation of the measured values
- Data storage in a database

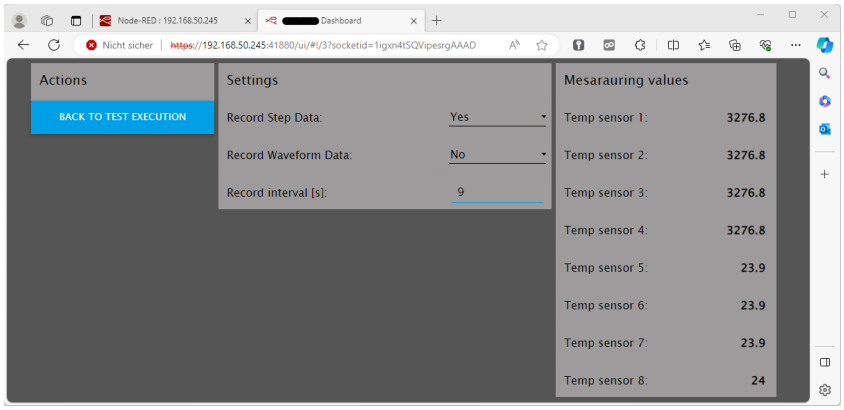
## Our solution concept:

**Feasibility analysis:**
The test and measuring devices communicate via the **RS232, RS485 and CAN bus protocols**.
Since the process mainly involves data handling and because the visualisation should be accessible via an external PC (web browser), a **Linux-based system** was used instead of a classic PLC.
Furthermore, it was crucial that the test cabinet door could only be opened in a de-energised state.
For this purpose, appropriate **sensors** were selected, and a **safety control** was installed.

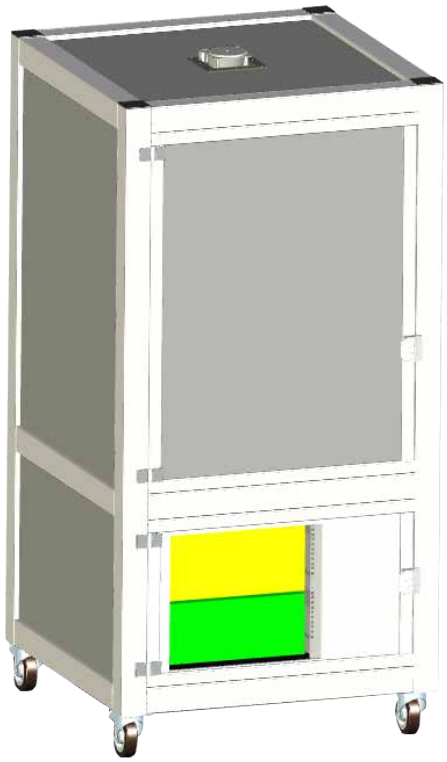
**Control system:**
Revolution Pi with Raspbian Linux, Android touch panelel

**Plant operation:**
The plant's operation takes place via a **12" touch panel**. The touch panel's web visualisation can also be opened and displayed from an external PC. The panel allows the user to set the parameters as well as to start and stop the testing process. During the test, the test results are displayed in an XY diagram.

## Test cabinets for capacitors




*Plant operation via a 12” touch panel*

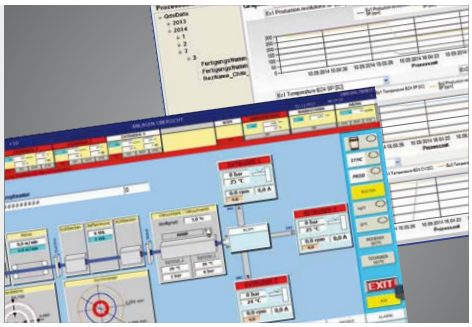


## Our scope of services:

- Feasibility analysis in cooperation with the client
- Control concept development
- Electrical design
- Control cabinet construction
- Electrical installation
- Commissioning in the factory and at the end customer’s site

## Everything from a single source

As a subsidiary of the **Pütz Group**, we offer more than just process automation. The joint development of ten mechanical and plant engineering companies to date has produced **synergy effects** that benefit our customers.



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